

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647160

Luminaire Tested: **GALN-SA9C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42298.4 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

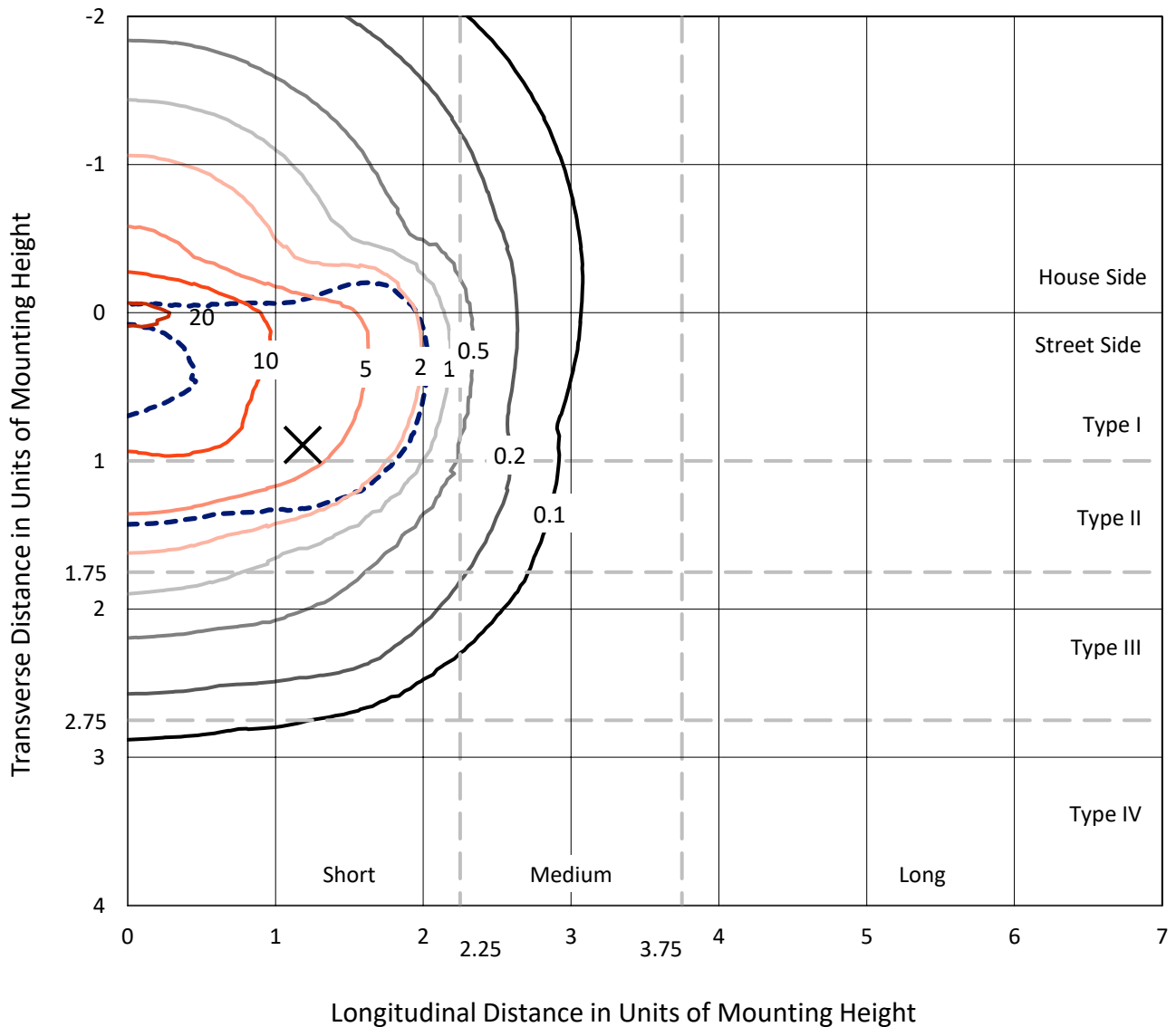
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

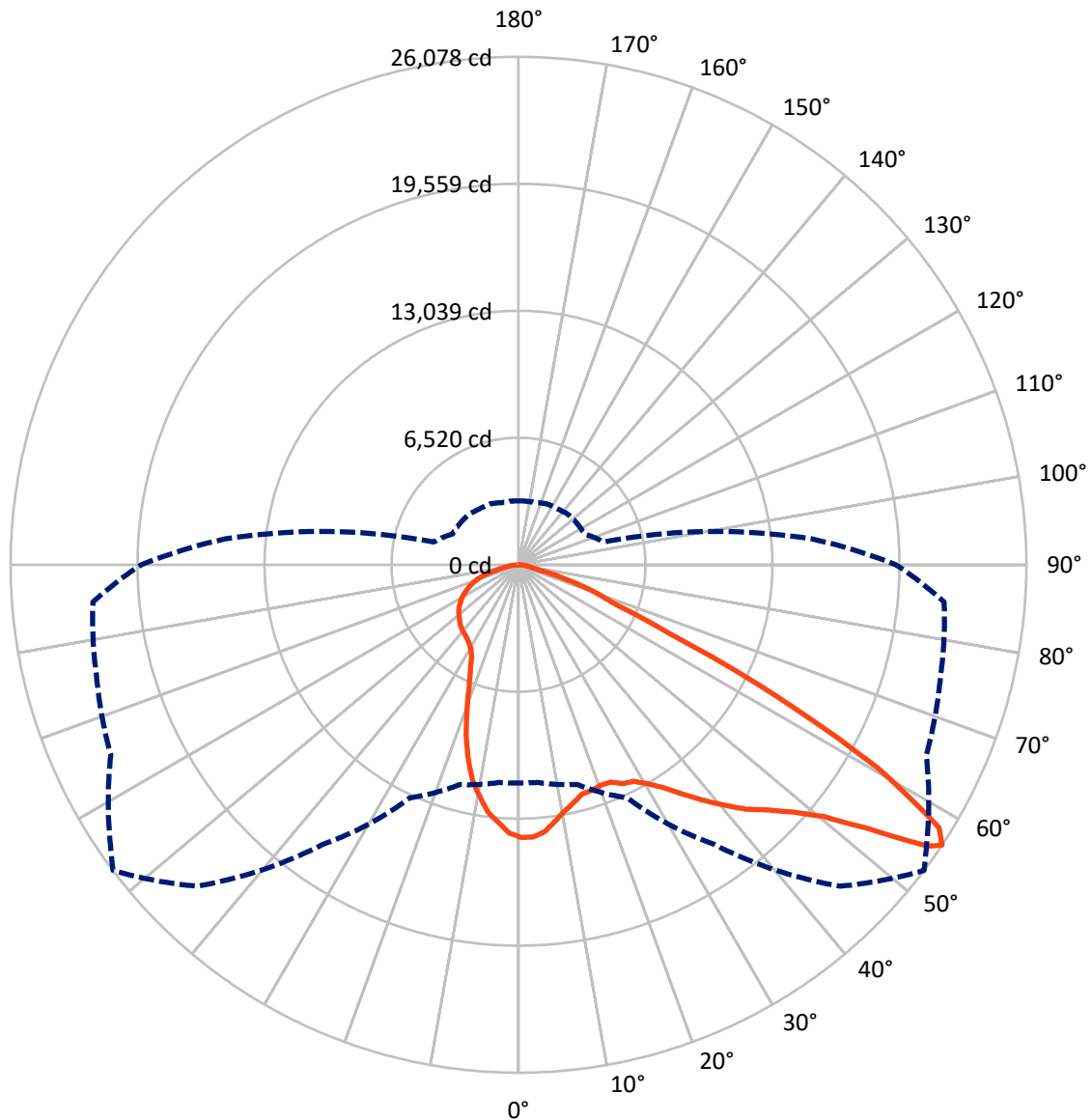
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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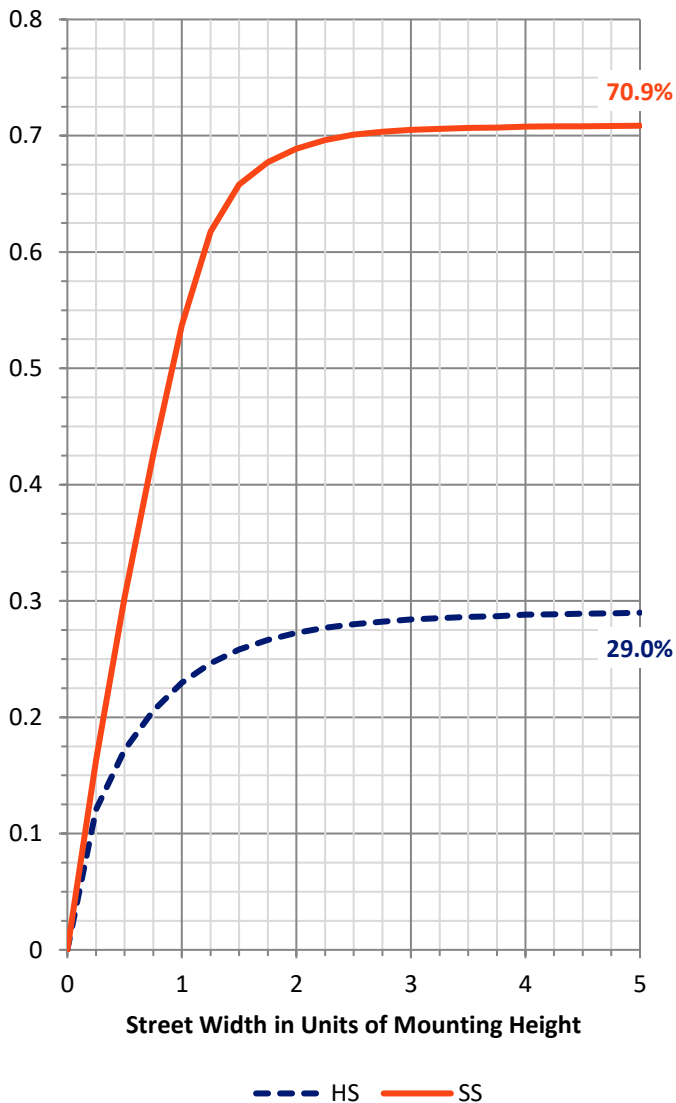
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12343.6	0.0	12343.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	29954.8	0.0	29954.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	42298.4	0.0	42298.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1238.9	2.9
10°-20°	3094.1	7.3
20°-30°	4562.6	10.8
30°-40°	6519.1	15.4
40°-50°	8972.6	21.2
50°-60°	10603.2	25.1
60°-70°	5650.8	13.4
70°-80°	1433.6	3.4
80°-90°	223.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42298.4	100.0
0°-180°	42298.4	100.0

Coefficient of Utilization



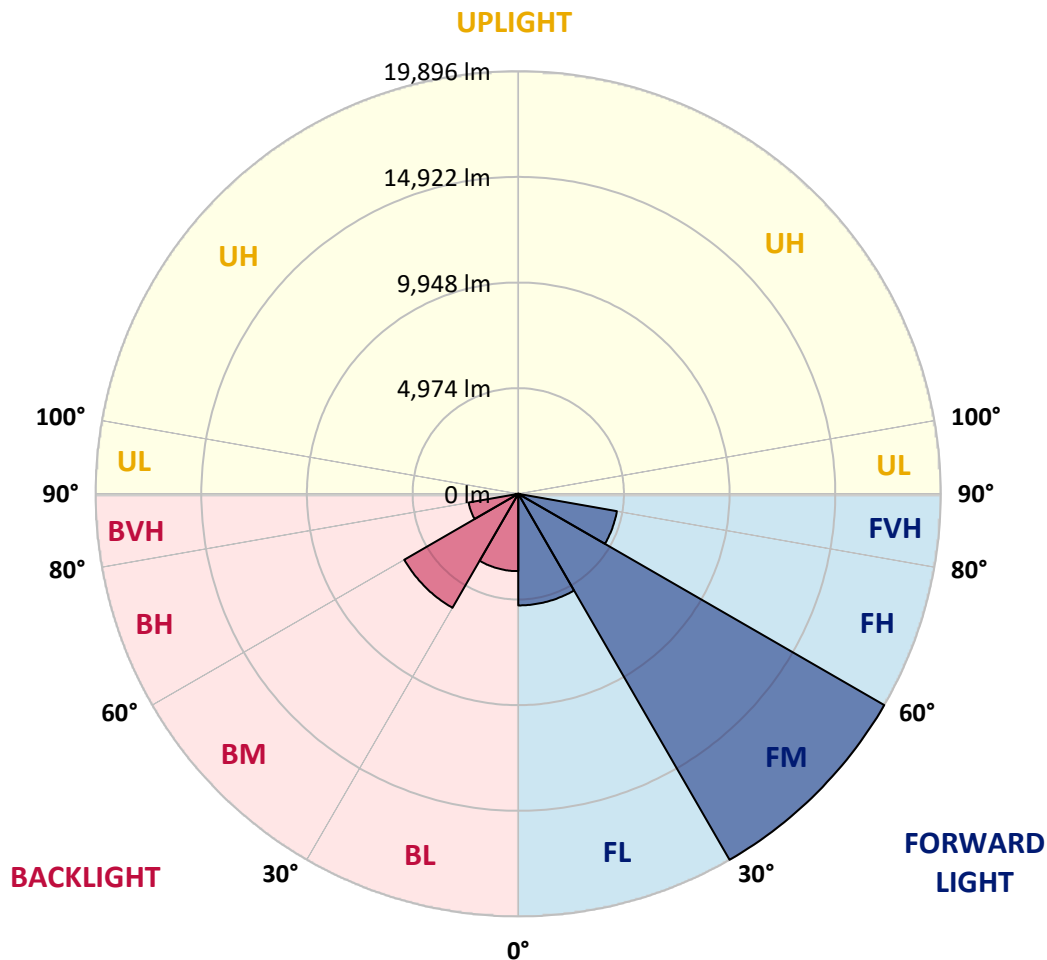
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5255.0	12.4			
FM (30°-60°)	19896.4	47.0			
FH (60°-80°)	4713.6	11.1			G2/5000
FVH (80°-90°)	89.9	0.2			G1/100
BL (0°-30°)	3640.6	8.6	B4/5000		
BM (30°-60°)	6198.5	14.7	B4/8500		
BH (60°-80°)	2370.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	133.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0
2.5°	13820.3	13701.0	13771.5	13744.4	13966.8	14032.0	13999.4	14026.6	14151.3	14091.7	13966.8
5°	12914.2	13082.4	13114.9	13196.4	13326.6	13581.6	13782.4	13836.6	13896.3	14173.1	14145.9
7.5°	12089.4	12203.4	12143.7	12382.4	12664.6	13077.0	13321.2	13364.6	13912.6	14064.6	14178.5
10°	11568.5	11454.6	11725.9	11791.0	12111.1	12583.2	12876.2	13055.3	13554.5	14156.8	14227.3
12.5°	11085.6	11047.6	11210.4	11394.8	11753.0	12241.3	12539.8	12610.3	13380.8	14015.7	14346.7
15°	10727.5	10684.0	10846.8	10982.5	11400.3	11834.4	12214.3	12415.0	13190.9	13934.3	14243.6
17.5°	10445.3	10439.9	10532.1	10776.3	11205.0	11568.5	12181.7	12192.5	13093.2	14059.1	14330.4
20°	10429.0	10423.6	10439.9	10711.2	11101.8	11546.8	12078.6	12176.3	13093.2	13972.3	14335.9
22.5°	10564.7	10477.9	10575.5	10749.2	11031.3	11584.8	12116.5	12333.6	13407.9	14400.9	14580.0
25°	10781.8	10803.4	10857.7	10917.4	11080.2	11671.6	12453.0	12632.1	13777.0	14770.0	14916.5
27.5°	11177.8	11167.0	11188.7	11221.3	11362.3	11753.0	12588.6	13049.9	14547.4	15426.5	15280.0
30°	11758.4	11720.4	11807.2	11921.2	11791.0	12013.5	13039.0	13386.2	15263.7	16088.5	15686.9
32.5°	12284.7	12425.8	12588.6	12637.5	12480.1	12523.5	13635.9	13988.5	15860.6	16902.4	16186.2
35°	12941.3	13055.3	13272.3	13424.2	13397.1	13266.9	14449.8	14916.5	16723.3	17499.3	16712.5
37.5°	13581.6	13717.2	14075.4	14525.7	14276.1	14216.5	15318.0	15703.2	16989.2	17819.4	17097.7
40°	14612.6	14607.2	15225.7	15459.1	15681.5	15578.4	16218.7	16349.0	17130.3	17748.9	17108.6
42.5°	15822.6	15746.6	16376.1	16739.6	17027.2	17038.1	17157.4	17114.0	17195.4	17390.7	16994.6
45°	16972.9	17135.7	17770.6	18421.7	18709.3	18741.9	17949.6	17868.2	17309.4	17287.6	16777.6
47.5°	18378.3	18416.3	18937.2	19794.6	20461.9	20234.1	18975.1	18796.1	17808.6	17976.7	17141.1
50°	18459.7	18741.9	19208.5	20217.8	22268.8	22209.2	20304.6	19968.1	18611.6	18953.5	18155.8
52.5°	16755.9	16690.7	17244.2	18893.8	22133.2	24173.4	22507.6	21704.5	20337.2	20076.7	19800.0
55°	12767.7	12919.7	13407.9	15073.8	19219.4	24200.6	25508.3	24851.7	22182.0	21737.1	21416.9
56°	11199.6	11221.3	11682.4	13201.8	17537.2	23337.8	26078.0	25546.2	23099.0	22420.7	21932.5
57.5°	9284.1	9159.3	9398.0	10228.3	14802.5	21514.6	25454.0	25974.9	24173.4	23158.7	22480.5
60°	7309.0	7281.9	7184.2	7336.2	9354.7	16207.9	21189.1	22361.1	24064.9	22464.2	21530.9
62.5°	5968.7	5833.1	6028.4	6245.4	6500.5	10054.7	14889.3	15578.4	19105.4	17933.4	16175.3
65°	4628.5	4563.4	4807.5	5512.9	5664.8	6386.5	8481.1	9012.8	11280.9	11080.2	9756.2
67.5°	3185.2	3196.0	3407.6	4482.0	5252.5	5187.4	5192.8	5469.6	5887.4	4373.4	3809.1
70°	2018.5	2013.1	2127.0	2886.7	4226.9	4270.4	4053.4	3971.9	3765.8	2279.0	2414.6
72.5°	1296.9	1258.8	1318.6	1595.3	2186.8	2528.5	2604.6	2653.4	2181.3	1790.6	1942.5
75°	732.5	694.5	672.8	743.4	862.8	998.4	1096.0	1128.6	1264.3	1356.5	1437.9
77.5°	222.5	200.8	244.1	325.6	428.7	575.2	700.0	721.7	851.9	960.4	1041.8
80°	97.6	108.5	151.9	217.0	303.9	406.9	493.8	526.3	613.2	694.5	716.3
82.5°	59.7	65.1	103.1	146.5	211.6	287.6	352.7	363.5	450.4	515.4	531.7
85°	21.7	27.1	54.3	86.8	135.6	184.5	184.5	200.8	184.5	184.5	200.8
87.5°	0.0	0.0	5.4	10.9	10.9	16.3	21.7	21.7	27.1	32.6	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0	13994.0
2.5°	14032.0	14004.8	13961.4	13804.1	13787.8	13739.0	13467.7	13424.2	13467.7	13337.5	13348.3
5°	14004.8	14086.2	13760.7	13603.3	13310.3	13098.7	12854.5	12729.7	12507.3	12366.2	12523.5
7.5°	14124.2	14091.7	13684.7	13342.9	12903.4	12366.2	11937.5	11693.3	11302.6	11194.1	11275.5
10°	14080.8	13907.2	13429.7	12979.3	12149.1	11677.0	10982.5	10309.7	9940.7	9750.8	9723.6
12.5°	14021.1	13972.3	13174.7	12398.7	11525.1	10532.1	9555.4	8920.6	8318.3	8057.8	8095.8
15°	14091.7	13679.2	12697.1	11715.0	10553.8	9251.5	8198.9	7379.5	6961.7	6793.5	6793.5
17.5°	14059.1	13538.2	12469.3	10949.9	9479.5	7938.4	6782.7	6288.9	6115.2	6115.2	6164.1
20°	14075.4	13630.5	12008.0	10184.9	8209.8	6685.0	5843.9	5664.8	5740.9	5768.0	5795.1
22.5°	14167.6	13326.6	11557.6	9343.8	7032.3	5719.1	5306.8	5312.2	5447.8	5594.4	5567.2
25°	14281.6	13207.2	11009.6	8508.2	6131.5	5247.0	5116.8	5100.5	5203.7	5279.6	5290.5
27.5°	14183.9	13001.0	10450.7	7466.4	5393.5	4932.4	4905.3	4916.1	4948.6	5100.5	5051.8
30°	14504.1	13060.7	9750.8	6592.8	4986.6	4829.2	4796.7	4780.4	4829.2	4872.7	4834.7
32.5°	14900.2	12849.1	9229.8	5751.7	4785.9	4753.3	4688.2	4666.4	4693.6	4650.2	4671.9
35°	15073.8	12811.1	8551.6	5149.4	4628.5	4601.4	4563.4	4557.9	4563.4	4525.4	4492.9
37.5°	15171.5	12990.1	7775.7	4872.7	4530.8	4557.9	4471.2	4460.3	4362.6	4384.3	4400.6
40°	15339.7	12713.4	7146.2	4606.8	4471.2	4416.9	4340.9	4324.6	4259.5	4221.5	4259.5
42.5°	15095.5	12632.1	6527.6	4492.9	4384.3	4324.6	4270.4	4178.1	4156.4	4123.8	4102.1
45°	14900.2	12165.4	5974.1	4351.8	4281.2	4248.6	4145.6	4047.9	3966.5	3999.1	3950.2
47.5°	15046.7	12002.6	5426.1	4232.3	4140.1	4102.1	3999.1	3923.1	3841.7	3803.7	3792.9
50°	15632.7	12306.5	4964.9	4145.6	4020.8	3999.1	3863.4	3776.6	3700.6	3673.5	3684.3
52.5°	17032.6	13136.6	4650.2	3966.5	3906.8	3809.1	3733.2	3624.7	3575.8	3489.0	3543.2
55°	18807.0	14487.8	4568.8	3798.3	3765.8	3678.9	3575.8	3494.5	3402.2	3331.7	3315.4
56°	19376.7	15133.5	4503.7	3733.2	3678.9	3630.1	3494.5	3445.6	3299.1	3282.8	3271.9
57.5°	19837.9	15703.2	4514.5	3608.4	3554.1	3510.7	3429.3	3310.0	3212.3	3152.6	3179.7
60°	18796.1	14699.4	4308.4	3418.5	3407.6	3326.2	3212.3	3158.0	3038.7	2968.1	2951.8
62.5°	13972.3	9978.6	3494.5	3174.3	3168.9	3082.0	2951.8	2892.1	2870.4	2772.8	2772.8
65°	8047.0	6256.3	3022.4	2973.5	2930.1	2843.3	2713.1	2664.2	2610.0	2577.4	2550.3
67.5°	3434.7	3244.8	2745.6	2740.2	2691.3	2582.8	2452.6	2376.6	2306.1	2241.0	2273.5
70°	2490.6	2528.5	2479.8	2452.6	2392.9	2257.2	2143.3	2051.1	1942.5	1899.2	1931.7
72.5°	1975.1	2056.5	2127.0	2132.5	2062.0	1904.6	1779.8	1654.9	1535.6	1475.9	1503.0
75°	1497.6	1551.9	1622.4	1638.7	1535.6	1427.1	1307.7	1177.5	1085.2	1014.7	1025.6
77.5°	1079.8	1069.0	1134.1	1123.2	1074.4	998.4	889.9	770.5	667.4	602.3	607.8
80°	738.0	754.3	792.2	786.8	727.1	678.2	596.9	499.2	423.2	368.9	358.1
82.5°	515.4	542.6	575.2	548.0	499.2	450.4	390.7	320.2	260.4	217.0	206.2
85°	184.5	211.6	244.1	260.4	276.7	265.9	222.5	179.1	130.2	108.5	103.1
87.5°	38.0	43.4	48.9	48.9	48.9	43.4	38.0	38.0	32.6	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)