

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: P534273

Luminaire Tested: **GALN-SA9D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42241 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

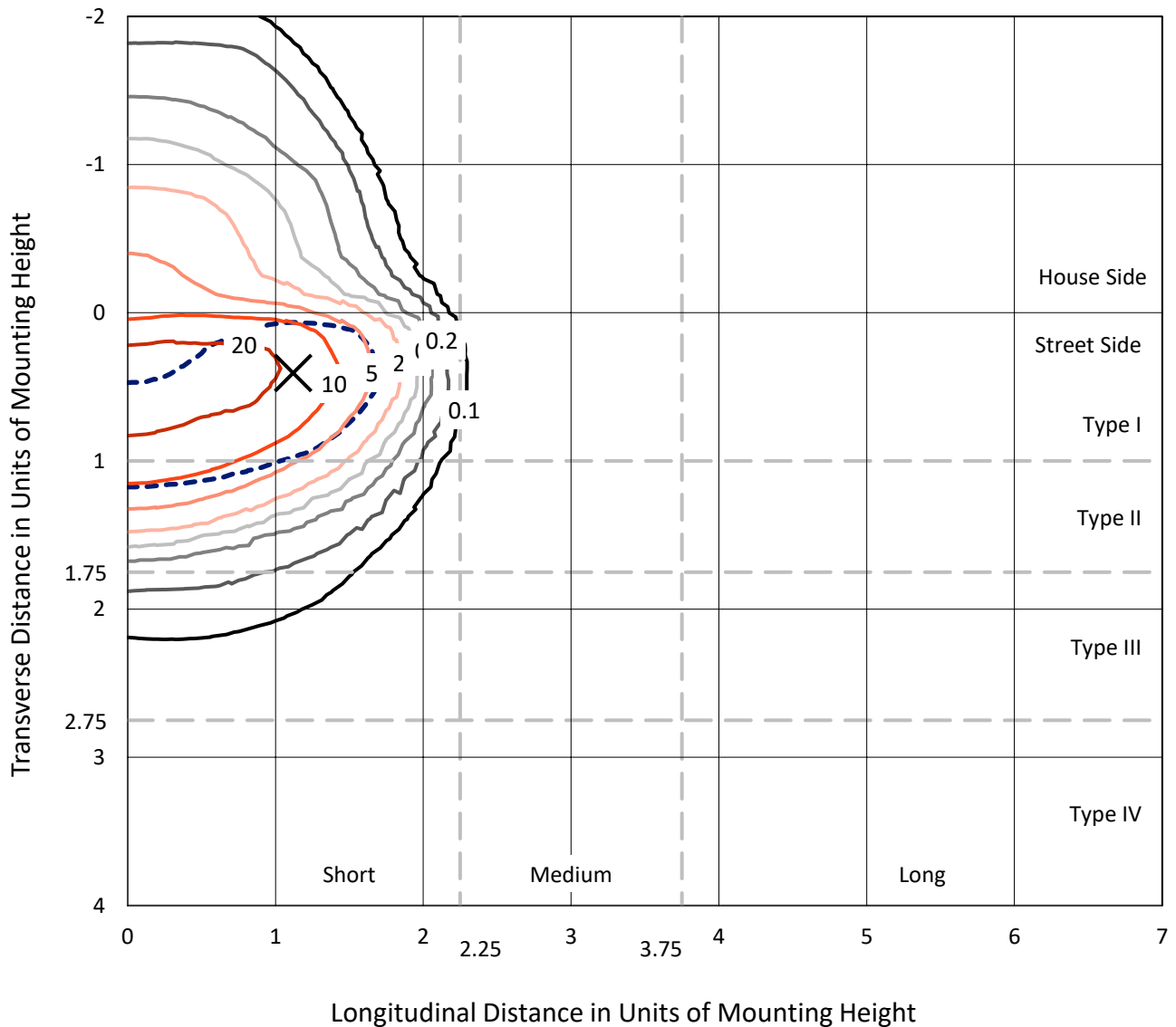
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

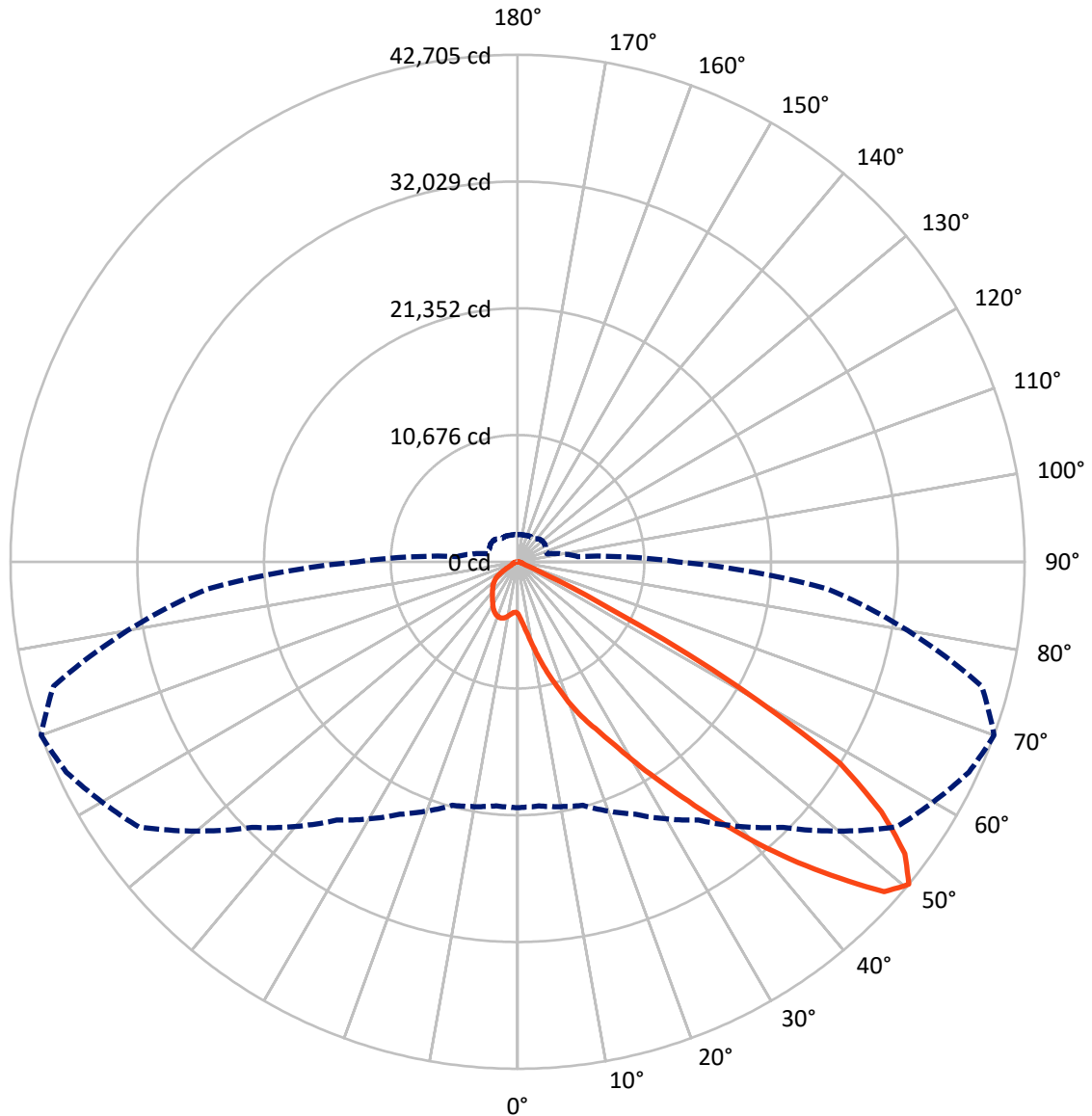
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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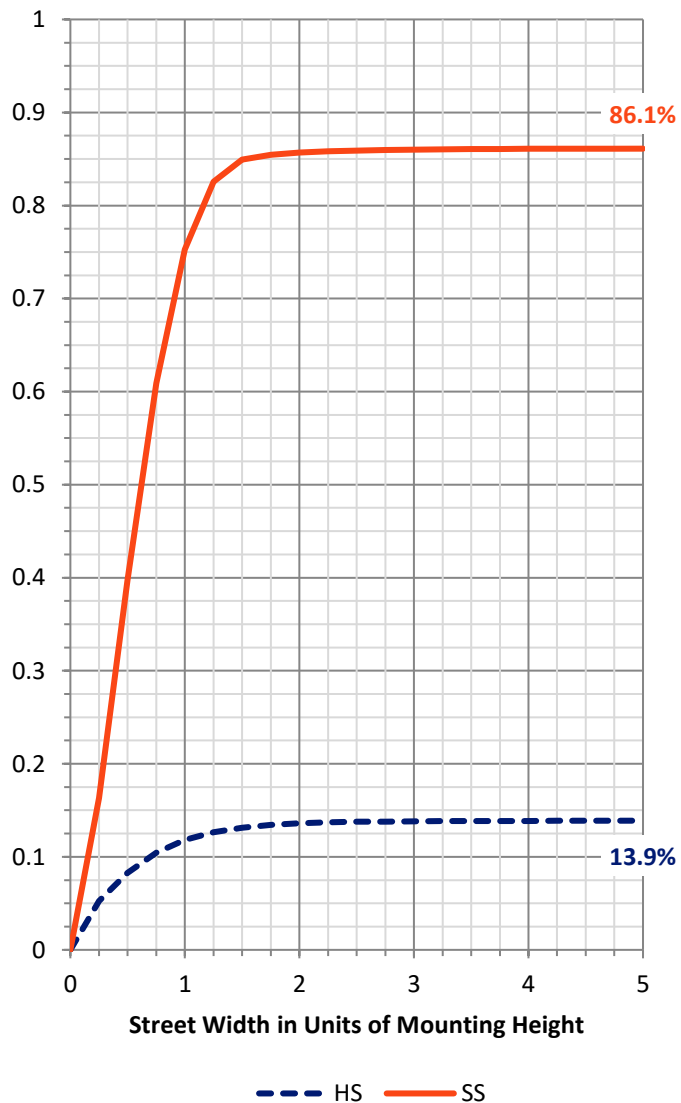
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5899.2	0.0	5899.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	36341.7	0.0	36341.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	42241.0	0.0	42241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.0	1.3
10°-20°	2461.1	5.8
20°-30°	5163.0	12.2
30°-40°	8899.2	21.1
40°-50°	13006.1	30.8
50°-60°	10129.6	24.0
60°-70°	1716.3	4.1
70°-80°	235.8	0.6
80°-90°	61.1	0.1
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°	42241.0	100.0
0°-180°	42241.0	100.0

Coefficient of Utilization



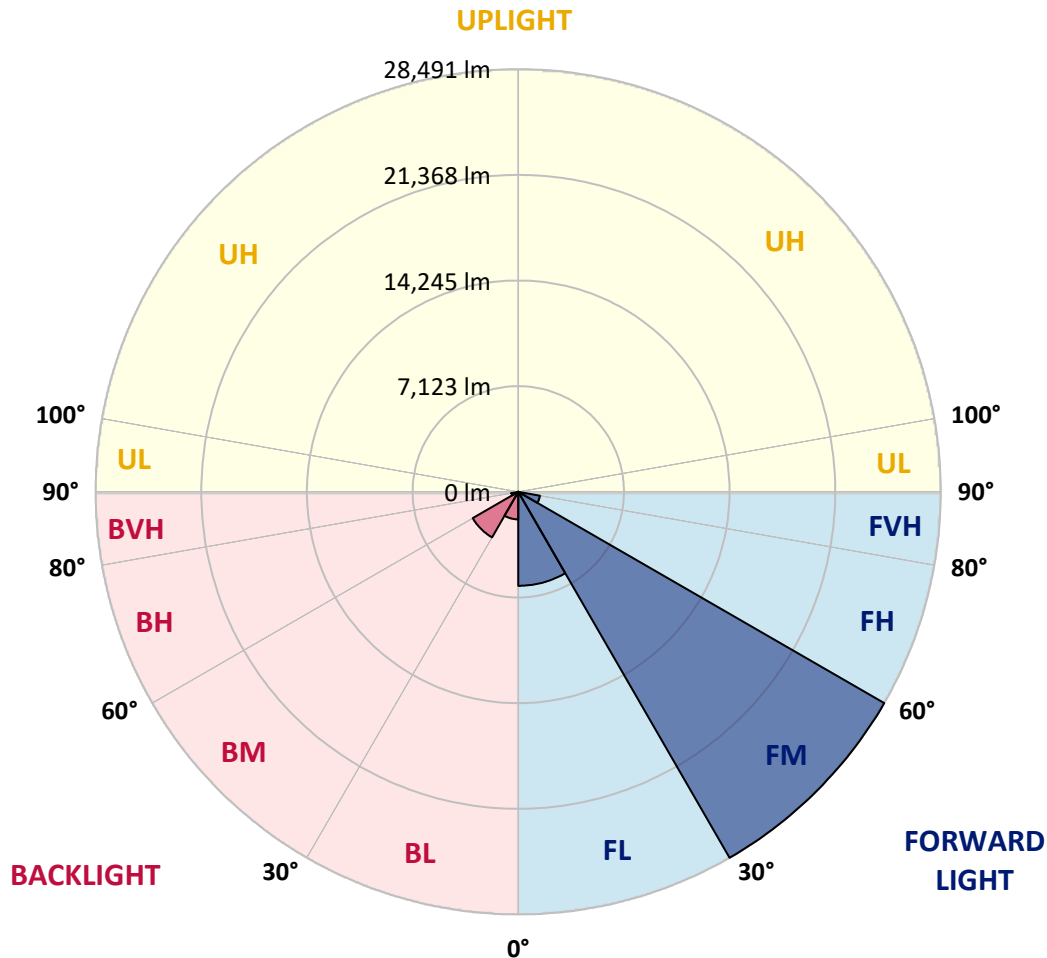
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6336.6	15.0			
FM (30°-60°)	28490.8	67.4			
FH (60°-80°)	1486.0	3.5			G1/1800
FVH (80°-90°)	28.2	0.1			G1/100
BL (0°-30°)	1856.3	4.4	B3/2500		
BM (30°-60°)	3544.1	8.4	B3/5000		
BH (60°-80°)	466.0	1.1	B1/500		G1/500
BVH (80°-90°)	32.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3
2.5°	5729.6	5687.9	5597.7	5431.0	5361.5	5194.8	5097.6	4910.1	4792.0	4660.1	4514.2
5°	8070.1	7854.8	7722.8	7535.3	6986.6	6646.3	6083.8	5604.6	5382.4	5139.3	4805.9
7.5°	10486.9	10348.0	10167.4	9764.6	9389.6	8681.2	7715.9	6660.2	6208.8	5792.1	5132.3
10°	12487.1	12098.2	12077.3	11778.7	11368.9	10521.6	9361.8	8049.2	7243.6	6632.5	5597.7
12.5°	13883.0	13528.8	13688.6	13653.8	13271.9	12494.0	11153.6	9417.4	8577.0	7625.6	6076.9
15°	15153.9	15008.1	14959.5	14917.8	14765.0	14188.6	12987.1	11084.2	9868.8	8722.9	6618.6
17.5°	16397.1	16022.1	16202.6	16237.4	16223.5	15702.6	14577.5	12667.6	11237.0	9882.7	7188.1
20°	17501.3	17536.1	17293.0	17244.4	17202.7	17181.9	16084.6	14237.2	12917.7	11098.1	7931.2
22.5°	18918.1	18675.0	18890.3	18751.4	18480.6	18313.9	17473.6	15626.2	14376.1	12563.5	8688.2
25°	20591.9	20786.3	20279.3	20223.8	19925.1	19348.7	18591.7	17181.9	15779.0	13924.7	9507.7
27.5°	22654.5	22314.2	22182.3	21876.7	21335.0	21091.9	20202.9	18786.2	17473.6	15355.3	10299.4
30°	24425.5	24335.2	23675.4	23314.3	22842.0	22835.1	21591.9	20959.9	19682.1	17598.6	11389.8
32.5°	25870.0	25474.2	25231.1	24981.1	24599.1	24703.3	23654.6	23321.2	22036.4	19682.1	12674.6
35°	26835.4	26550.6	26404.8	26022.8	25911.7	26377.0	25939.5	25800.6	24745.0	22612.8	14181.6
37.5°	27141.0	27231.3	27203.5	26724.3	26960.4	28217.4	28780.0	28418.8	27863.2	25703.4	15813.7
40°	27411.8	27474.3	27335.4	27898.0	28571.6	30002.3	32037.2	31439.9	31231.6	28835.5	18084.7
42.5°	27564.6	27516.0	27516.0	28488.3	29509.2	32384.4	35183.3	34787.4	34627.7	32169.1	20709.9
45°	26904.8	26432.6	26939.6	28259.1	30314.8	33558.1	37697.3	38246.0	38016.8	36134.7	23779.6
47.5°	24439.4	24731.1	25015.8	26779.8	29335.6	33197.0	39239.1	41107.3	41531.0	39468.3	25793.6
50°	20709.9	20647.4	21237.7	23460.1	26564.5	31641.3	38940.5	41933.8	42704.7	40468.4	26217.3
52.5°	15063.7	15522.0	16161.0	18369.5	22050.3	27613.2	35086.0	39801.7	40829.5	39239.1	25939.5
55°	8771.5	8264.5	9702.1	11570.3	15042.8	20828.0	29662.0	35280.5	37183.4	37002.8	24536.6
57.5°	3514.2	3403.0	3896.1	5250.4	7847.8	12910.7	21571.1	28988.3	32037.2	33891.5	21564.2
60°	1541.8	1507.1	1771.0	2139.1	3208.6	5951.8	11799.5	18029.2	21210.0	23682.4	14841.4
62.5°	1111.2	1097.3	1229.3	1361.2	1694.6	2590.5	4958.7	7264.4	9056.3	10938.3	6646.3
65°	895.9	930.6	1020.9	1090.4	1250.1	1437.6	1750.1	2021.0	2479.4	2569.6	1465.4
67.5°	729.2	757.0	840.3	916.7	944.5	777.8	805.6	708.4	708.4	632.0	507.0
70°	534.8	541.7	638.9	729.2	583.4	312.5	548.7	548.7	493.1	472.3	430.6
72.5°	395.9	402.8	479.2	451.4	229.2	194.5	402.8	444.5	402.8	382.0	347.2
75°	291.7	298.6	250.0	104.2	97.2	125.0	236.1	305.6	291.7	284.7	263.9
77.5°	55.6	41.7	34.7	48.6	69.4	104.2	152.8	187.5	194.5	208.3	194.5
80°	6.9	6.9	20.8	41.7	76.4	111.1	159.7	180.6	187.5	194.5	180.6
82.5°	0.0	6.9	20.8	41.7	76.4	104.2	138.9	159.7	173.6	180.6	173.6
85°	0.0	6.9	13.9	34.7	62.5	76.4	69.4	48.6	41.7	48.6	34.7
87.5°	0.0	0.0	6.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3	4375.3
2.5°	4430.9	4403.1	4305.9	4201.7	4111.4	4153.1	4111.4	4076.7	4090.6	4076.7	4062.8
5°	4674.0	4549.0	4340.6	4250.3	4173.9	4167.0	4146.2	4139.2	4146.2	4146.2	4083.6
7.5°	4903.2	4701.7	4479.5	4382.3	4292.0	4298.9	4250.3	4250.3	4243.4	4208.7	4194.8
10°	5250.4	4979.5	4694.8	4521.2	4410.1	4389.2	4340.6	4292.0	4292.0	4292.0	4222.5
12.5°	5632.4	5292.1	4903.2	4701.7	4569.8	4465.6	4389.2	4375.3	4298.9	4285.1	4250.3
15°	5965.7	5535.1	5042.1	4764.3	4597.6	4458.7	4340.6	4264.2	4229.5	4208.7	4180.9
17.5°	6292.1	5743.5	5118.4	4764.3	4583.7	4424.0	4298.9	4229.5	4146.2	4160.0	4104.5
20°	6729.7	5965.7	5139.3	4674.0	4451.7	4298.9	4132.3	4097.5	4048.9	4007.3	4021.1
22.5°	7153.3	6125.5	5076.8	4562.9	4243.4	4062.8	3979.5	3937.8	3917.0	3882.2	3833.6
25°	7535.3	6299.1	4979.5	4361.4	4021.1	3889.2	3812.8	3805.8	3757.2	3757.2	3666.9
27.5°	7924.2	6361.6	4812.9	4125.3	3826.7	3750.3	3715.6	3701.7	3680.8	3632.2	3569.7
30°	8368.7	6382.4	4569.8	3882.2	3653.1	3569.7	3618.3	3653.1	3562.8	3472.5	3500.3
32.5°	8736.8	6333.8	4278.1	3653.1	3528.0	3486.4	3583.6	3618.3	3514.2	3416.9	3368.3
35°	9181.3	6215.8	3993.4	3472.5	3403.0	3486.4	3569.7	3569.7	3361.4	3243.3	3215.5
37.5°	9854.9	6083.8	3729.5	3319.7	3271.1	3444.7	3555.8	3479.4	3153.0	3007.2	2972.5
40°	10577.2	6000.5	3472.5	3166.9	3201.6	3375.3	3437.8	3201.6	2868.3	2778.0	2750.2
42.5°	11625.9	5833.8	3243.3	3035.0	3139.1	3278.0	3278.0	2854.4	2729.4	2680.8	2673.8
45°	12931.5	5715.7	3041.9	2923.8	3048.8	3083.6	2972.5	2673.8	2583.5	2569.6	2576.6
47.5°	13570.5	5486.5	2833.6	2791.9	2882.2	2889.1	2597.4	2528.0	2451.6	2430.7	2416.9
50°	13473.3	5076.8	2562.7	2618.3	2743.3	2673.8	2368.2	2382.1	2312.7	2305.7	2271.0
52.5°	12792.6	4430.9	2291.8	2423.8	2562.7	2361.3	2180.7	2166.8	2166.8	2076.5	2041.8
55°	11341.1	3569.7	1965.4	2132.1	2298.8	1986.3	1937.6	1923.8	1889.0	1805.7	1784.9
57.5°	8979.9	2618.3	1479.3	1659.8	1951.5	1687.6	1680.7	1618.2	1527.9	1465.4	1465.4
60°	5340.7	1507.1	930.6	1014.0	1291.8	1368.2	1521.0	1493.2	1340.4	1243.2	1215.4
62.5°	2437.7	777.8	590.3	604.2	694.5	889.0	1194.5	1382.1	1166.8	1000.1	986.2
65°	819.5	576.4	486.1	465.3	479.2	534.8	715.3	979.2	930.6	770.9	743.1
67.5°	500.0	513.9	458.4	423.6	423.6	416.7	409.8	444.5	548.7	534.8	541.7
70°	430.6	472.3	423.6	382.0	368.1	347.2	291.7	243.1	208.3	243.1	257.0
72.5°	347.2	375.0	361.1	326.4	291.7	263.9	208.3	159.7	118.1	104.2	104.2
75°	257.0	277.8	291.7	250.0	222.2	187.5	152.8	104.2	62.5	41.7	41.7
77.5°	187.5	208.3	215.3	194.5	166.7	132.0	97.2	69.4	34.7	13.9	13.9
80°	159.7	187.5	208.3	194.5	173.6	125.0	90.3	48.6	27.8	6.9	6.9
82.5°	152.8	187.5	208.3	187.5	166.7	118.1	90.3	55.6	20.8	6.9	6.9
85°	34.7	48.6	62.5	76.4	90.3	90.3	69.4	41.7	20.8	6.9	6.9
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	6.9	6.9	0.0
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)