

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: P459058

Luminaire Tested: **GALN-SA5C-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25678 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

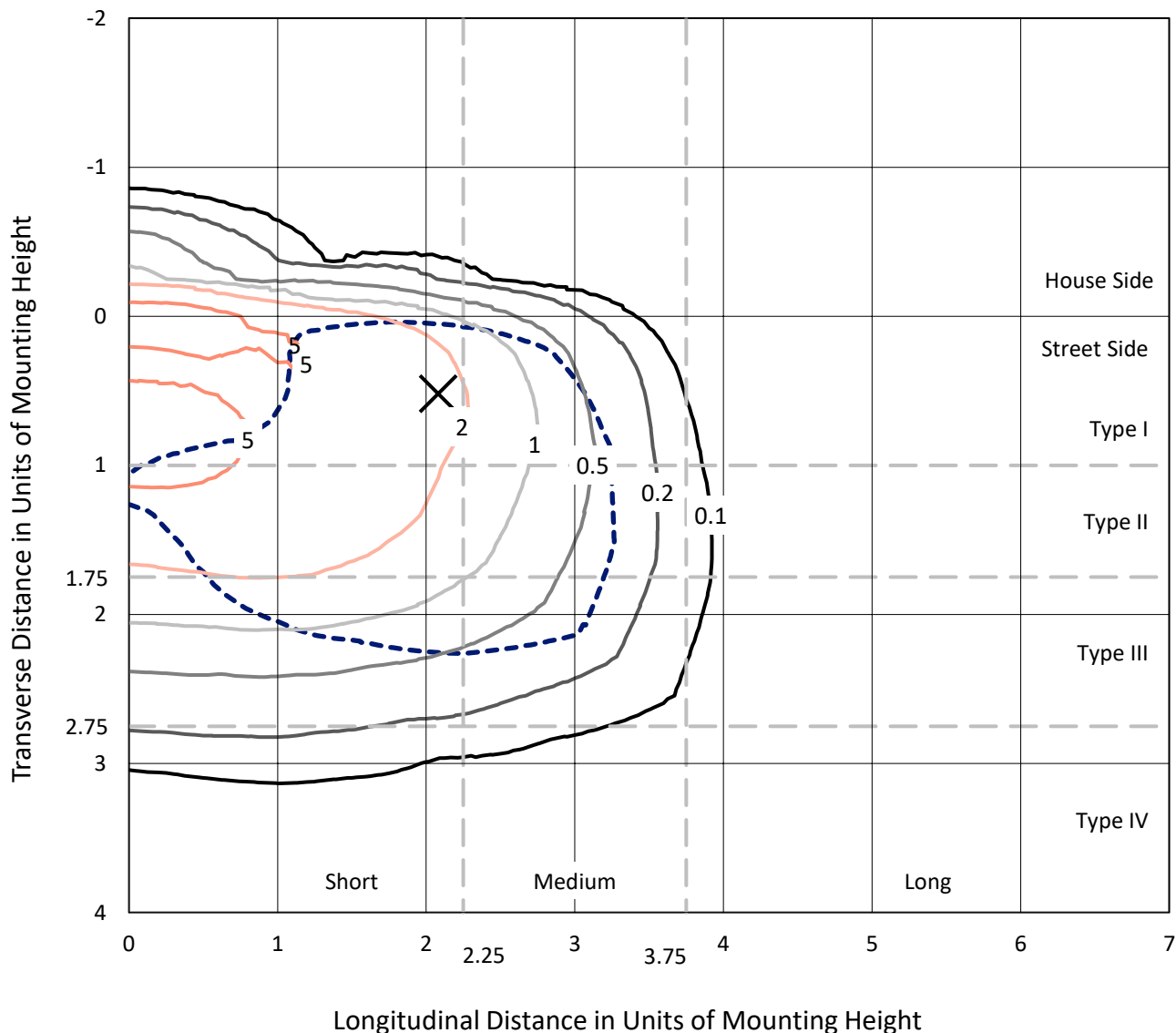
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

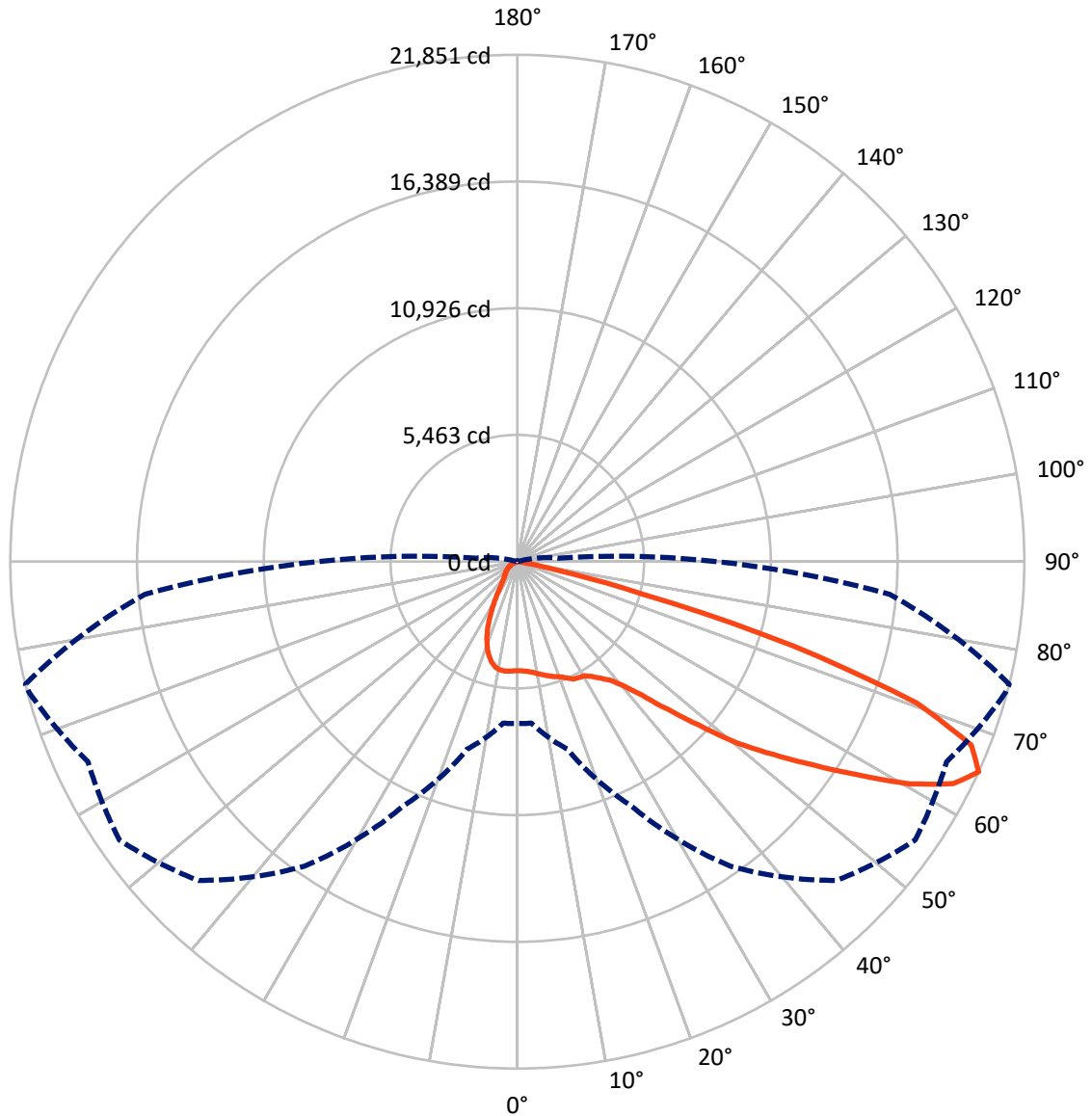
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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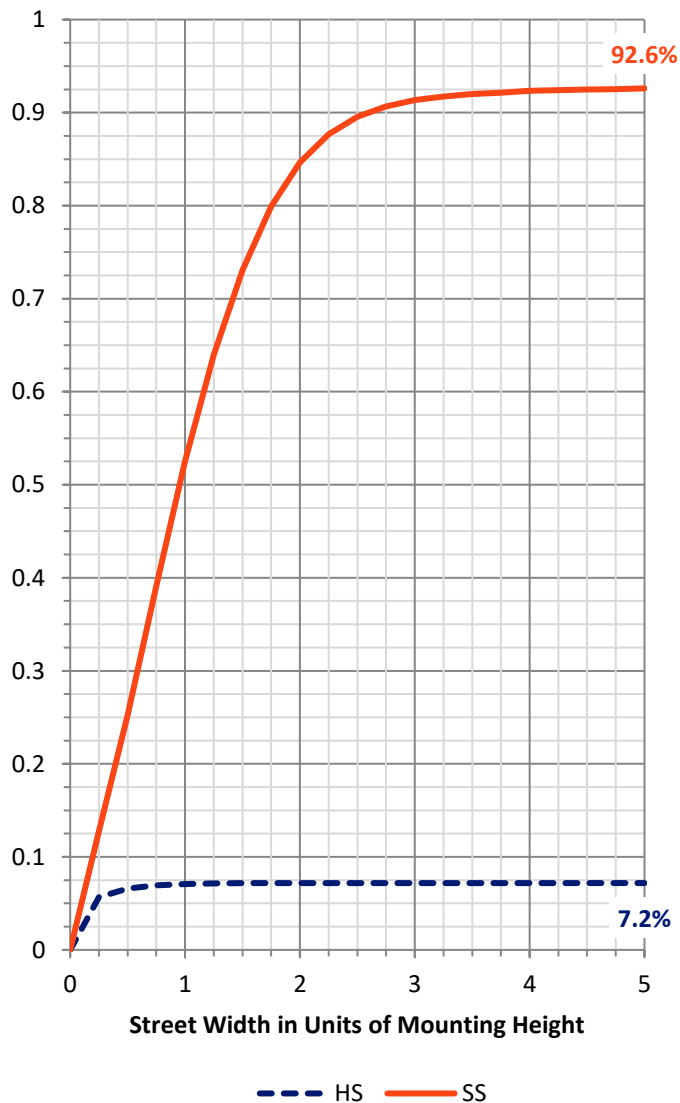
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1854.5	0.0	1854.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23823.5	0.0	23823.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	25678.0	0.0	25678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.9	1.5
10°-20°	861.6	3.4
20°-30°	1388.3	5.4
30°-40°	2414.0	9.4
40°-50°	3989.0	15.5
50°-60°	6162.1	24.0
60°-70°	7524.9	29.3
70°-80°	2855.9	11.1
80°-90°	95.3	0.4
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°	25678.0	100.0
0°-180°	25678.0	100.0

Coefficient of Utilization



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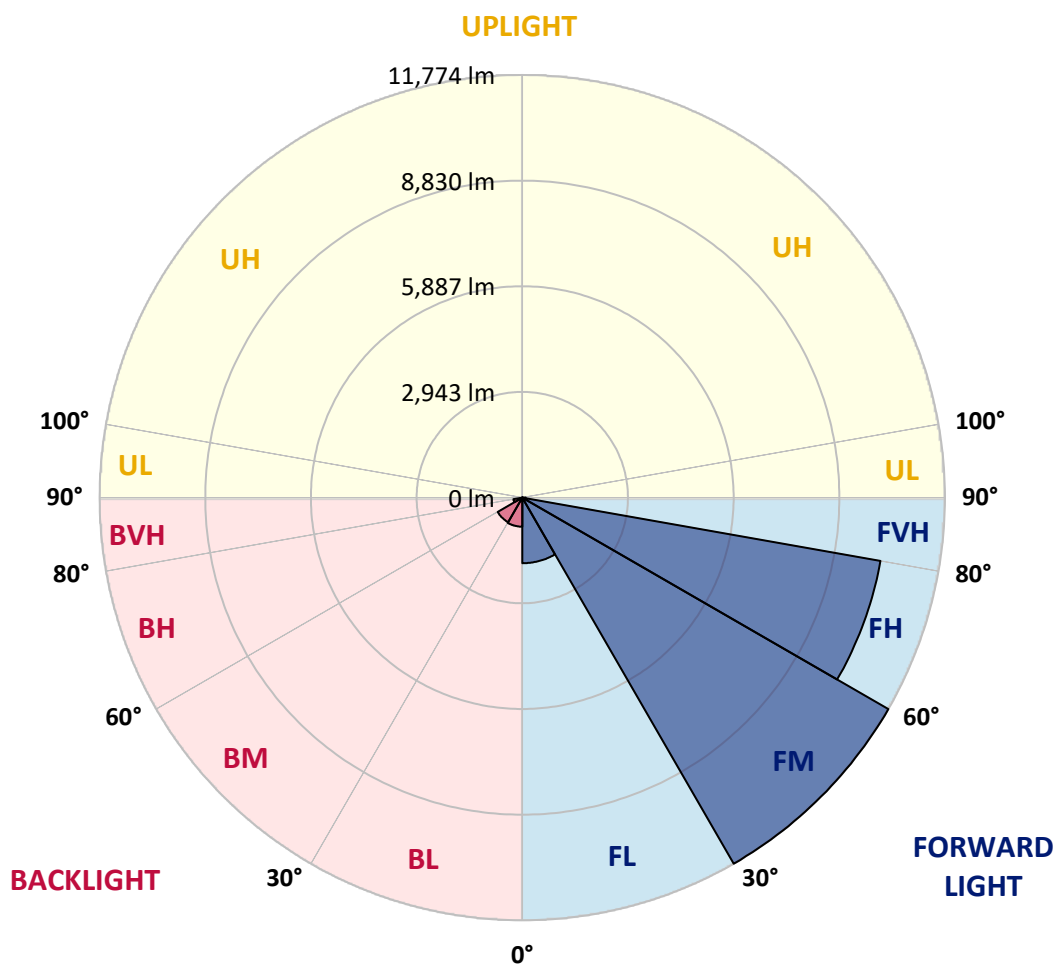
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1826.7	7.1			
FM	(30°-60°)	11773.8	45.9			
FH	(60°-80°)	10129.1	39.4			G4/12000
FVH	(80°-90°)	94.0	0.4			G1/100
BL	(0°-30°)	810.2	3.2	B2/1000		
BM	(30°-60°)	791.4	3.1	B1/1000		
BH	(60°-80°)	251.6	1.0	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3
2.5°	4488.8	4490.7	4501.5	4528.7	4570.4	4604.9	4633.9	4681.0	4713.6	4717.3	4728.1
5°	4178.8	4157.1	4178.8	4249.5	4313.0	4409.1	4526.9	4644.8	4749.9	4757.2	4807.9
7.5°	3830.7	3848.9	3883.3	3955.8	4075.5	4222.3	4392.8	4603.1	4802.5	4820.6	4920.3
10°	3477.2	3517.1	3573.3	3683.9	3850.7	4041.0	4273.1	4574.0	4885.9	4911.3	5083.5
12.5°	3150.9	3169.0	3237.9	3386.6	3593.2	3861.6	4182.5	4557.7	4978.3	5009.2	5257.5
15°	2900.7	2924.3	2984.1	3118.3	3348.5	3693.0	4108.1	4552.3	5069.0	5112.5	5431.6
17.5°	2853.6	2868.1	2893.5	2984.1	3185.3	3558.8	4041.0	4550.5	5156.0	5208.6	5592.9
20°	3047.6	3034.9	3009.5	3000.4	3111.0	3455.5	3992.1	4565.0	5239.4	5299.2	5763.3
22.5°	3533.4	3549.7	3401.1	3225.2	3189.0	3439.1	3984.8	4633.9	5371.7	5442.4	5953.7
25°	4565.0	4439.9	4207.8	3787.2	3470.0	3538.9	4066.4	4797.0	5525.8	5603.8	6125.9
27.5°	5705.3	5667.2	5306.5	4613.9	4022.9	3749.2	4211.5	4922.1	5576.6	5656.4	6223.8
30°	6825.7	6871.0	6457.7	5692.6	4826.0	4138.9	4347.4	4969.3	5621.9	5705.3	6348.9
32.5°	7864.5	7918.9	7556.3	6798.5	5772.4	4813.4	4581.3	5152.4	5812.3	5897.5	6557.4
35°	8682.2	8689.4	8415.7	7812.0	6805.8	5632.8	5087.1	5473.3	6069.7	6169.4	6778.6
37.5°	9432.7	9421.8	9101.0	8580.6	7666.9	6446.8	5723.4	5843.1	6363.4	6466.8	7097.7
40°	9989.3	9996.5	9893.2	9403.7	8470.1	7199.2	6227.4	6189.4	6856.5	7017.9	7561.8
42.5°	10360.9	10428.0	10478.8	10230.4	9479.9	8125.6	7001.6	6930.9	7712.2	7846.4	8218.1
45°	10661.9	10781.5	11035.4	11022.7	10449.8	9262.3	8064.0	7918.9	8925.1	9068.3	9053.8
47.5°	10881.3	11002.7	11423.3	11677.1	11361.7	10364.6	9400.1	9275.0	10373.6	10529.6	9976.6
50°	10993.7	11138.7	11675.3	12166.6	12074.2	11427.0	10923.0	10930.2	12123.1	12273.6	11046.2
52.5°	10730.8	10919.3	11809.5	12694.2	12873.7	12444.0	12349.7	12589.1	13680.4	13809.2	12012.5
55°	9891.4	10128.9	11626.4	13143.8	13800.1	13644.2	13970.5	14334.9	15382.8	15466.2	13004.2
57.5°	9360.2	9612.2	11086.1	13526.3	14913.2	15152.5	15669.2	15935.7	17139.5	17351.6	14142.7
60°	8912.4	9110.0	10642.0	13607.9	16044.5	16998.1	17500.3	17775.9	19307.8	19445.6	15395.5
62.5°	8167.3	8393.9	9891.4	13038.7	16613.8	18475.7	19516.3	19393.0	20984.8	21080.9	16164.2
65°	6968.9	6988.9	8368.5	11608.3	16026.4	19434.7	20932.2	20415.5	21786.1	21851.4	16104.3
67.5°	5201.3	5393.5	6437.7	9124.5	13537.2	18615.3	21390.9	20442.7	21280.3	21099.0	14826.2
70°	3350.3	3497.2	4363.7	6327.2	9760.9	15535.1	19869.8	19041.3	18676.9	18274.4	12135.8
72.5°	1546.4	1735.0	2592.5	3615.0	5788.7	11066.2	16129.7	15469.8	13442.9	12449.5	7714.1
75°	674.4	721.5	1279.9	1907.2	2714.0	5852.2	10634.7	9603.1	6071.5	5545.8	3087.4
77.5°	411.5	442.4	670.8	1022.5	1066.0	2229.9	5728.9	4189.7	1876.4	1655.2	837.6
80°	279.2	313.6	487.7	534.8	364.4	621.8	2150.1	1118.6	378.9	362.6	179.5
82.5°	136.0	172.2	360.8	299.1	157.7	199.4	625.5	239.3	110.6	103.3	63.5
85°	19.9	34.4	203.0	195.8	70.7	47.1	110.6	59.8	38.1	36.3	29.0
87.5°	0.0	0.0	68.9	30.8	7.3	7.3	12.7	12.7	14.5	12.7	14.5
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°	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3
2.5°	4733.6	4742.6	4708.2	4659.3	4606.7	4554.1	4479.8	4412.7	4372.8	4396.4	4338.4
5°	4818.8	4811.5	4720.9	4572.2	4374.6	4137.1	3901.4	3700.2	3634.9	3537.0	3526.2
7.5°	4936.6	4916.7	4724.5	4383.7	3937.7	3491.7	3056.6	2768.4	2603.4	2463.8	2467.4
10°	5101.6	5043.6	4682.8	4051.9	3317.7	2645.1	2090.3	1709.6	1544.6	1492.0	1450.4
12.5°	5272.0	5159.6	4566.8	3604.1	2583.4	1807.5	1270.9	1038.8	937.3	904.7	901.0
15°	5424.3	5246.6	4363.7	3065.7	1878.2	1154.8	866.6	790.4	777.8	779.6	777.8
17.5°	5574.8	5315.5	4082.7	2494.6	1276.3	828.5	745.1	727.0	732.4	739.7	737.9
20°	5699.9	5330.0	3723.8	1903.6	902.8	727.0	699.8	696.2	701.6	707.0	707.0
22.5°	5835.9	5340.9	3297.7	1318.0	737.9	676.2	661.7	661.7	669.0	676.2	678.0
25°	5937.4	5281.1	2788.3	946.4	650.8	627.3	620.0	621.8	629.1	632.7	630.9
27.5°	5953.7	5112.5	2248.0	725.2	591.0	567.4	560.2	567.4	558.4	563.8	560.2
30°	5968.2	4898.6	1700.5	611.0	536.6	500.4	489.5	478.6	471.4	462.3	460.5
32.5°	6013.5	4646.6	1241.9	549.3	485.9	446.0	420.6	389.8	366.2	359.0	357.1
35°	6033.5	4343.8	911.9	500.4	440.5	397.0	351.7	308.2	273.8	261.1	270.1
37.5°	6109.6	4050.1	707.0	464.1	400.7	346.3	288.3	233.9	201.2	194.0	197.6
40°	6265.5	3731.0	592.8	433.3	366.2	299.1	228.4	175.9	154.1	146.8	145.0
42.5°	6515.7	3413.8	527.6	404.3	331.8	252.0	179.5	137.8	119.7	114.2	114.2
45°	6820.3	3109.2	482.2	373.5	295.5	203.0	141.4	110.6	99.7	96.1	96.1
47.5°	7220.9	2842.7	444.2	342.6	255.6	161.4	114.2	96.1	88.8	90.6	92.5
50°	7627.0	2645.1	402.5	308.2	210.3	132.3	97.9	85.2	83.4	85.2	85.2
52.5°	7933.4	2529.1	346.3	261.1	165.0	110.6	87.0	79.8	78.0	74.3	74.3
55°	8346.8	2503.7	275.6	212.1	130.5	92.5	78.0	72.5	67.1	63.5	61.6
57.5°	8878.0	2532.7	212.1	165.0	101.5	76.1	68.9	59.8	52.6	45.3	45.3
60°	9207.9	2467.4	165.0	126.9	74.3	61.6	52.6	43.5	34.4	29.0	27.2
62.5°	9102.8	2191.8	130.5	94.3	52.6	45.3	34.4	29.0	19.9	14.5	12.7
65°	8560.7	1769.4	105.2	65.3	38.1	27.2	18.1	18.1	9.1	1.8	0.0
67.5°	7492.9	1310.8	83.4	43.5	21.8	12.7	9.1	5.4	0.0	0.0	0.0
70°	6098.7	946.4	65.3	27.2	12.7	9.1	3.6	1.8	0.0	0.0	0.0
72.5°	3872.4	542.1	50.8	16.3	9.1	3.6	0.0	0.0	0.0	0.0	0.0
75°	1497.5	212.1	34.4	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	424.2	99.7	19.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.6	43.5	10.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.6	18.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.8	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)