

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: P192993

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27341 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 279
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: 25 FT



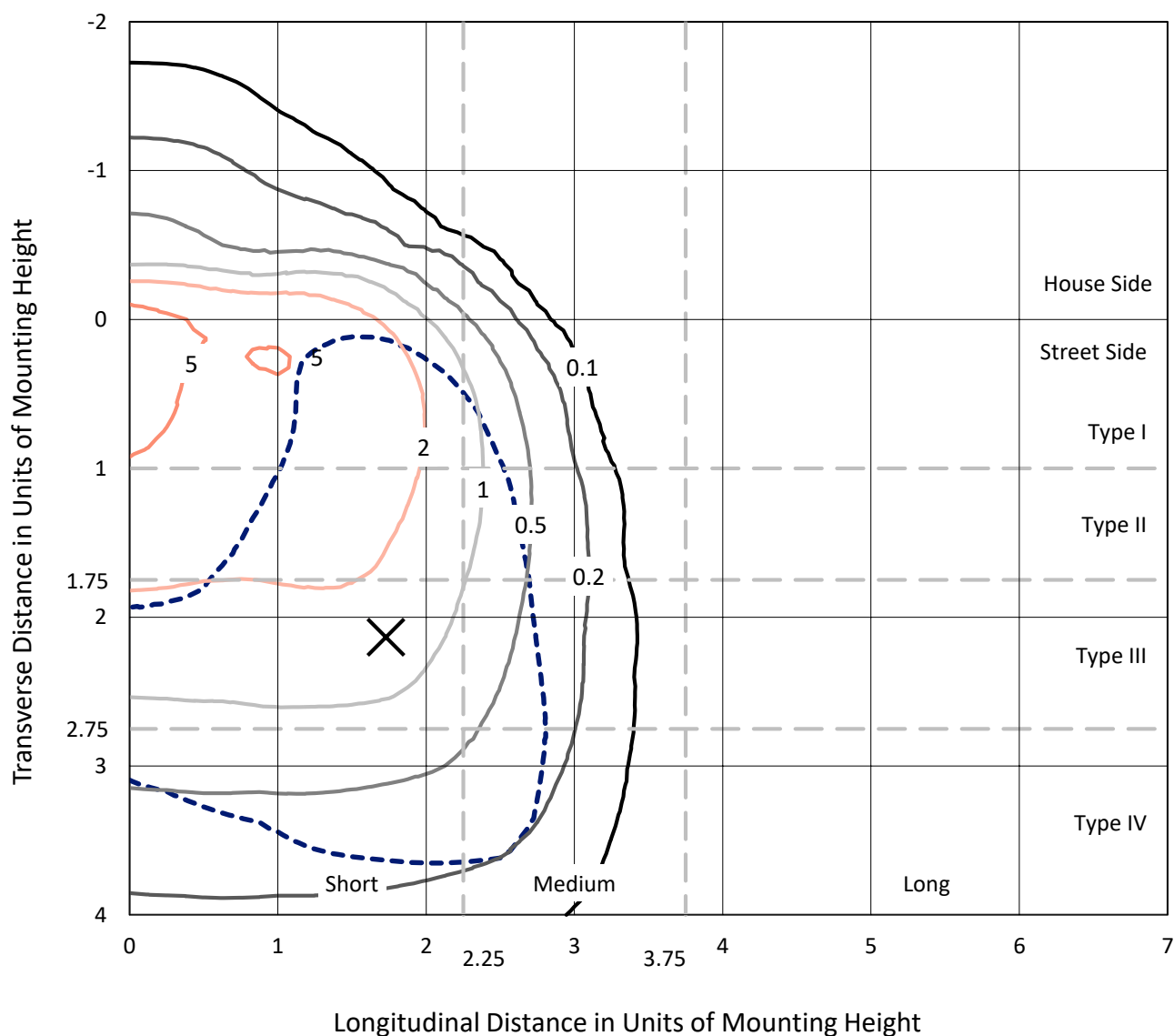
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

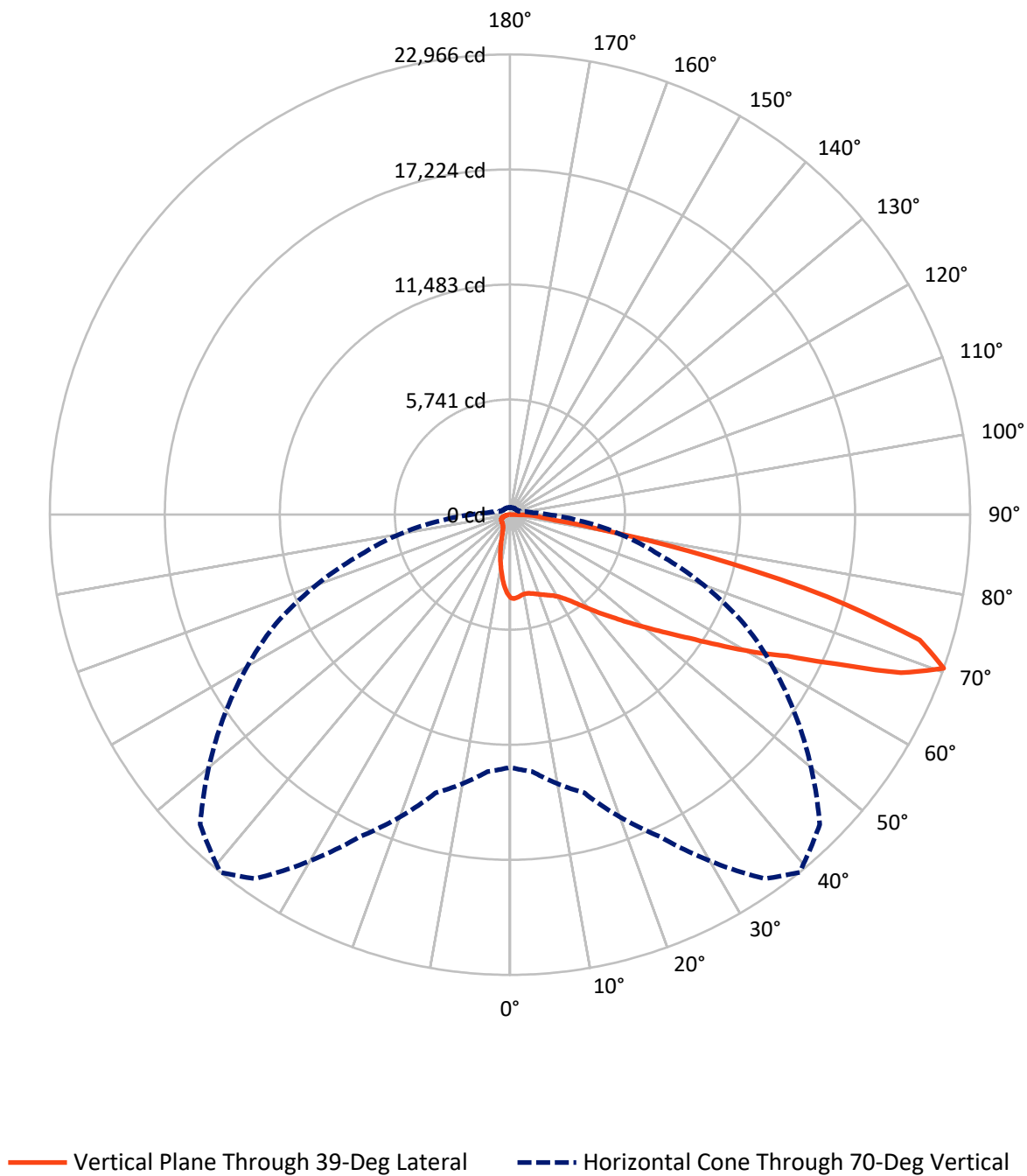


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3109.6	0.0	3109.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	24231.4	0.0	24231.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	27341.0	0.0	27341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.2	1.3
10°-20°	890.4	3.3
20°-30°	1386.4	5.1
30°-40°	2159.7	7.9
40°-50°	3625.8	13.3
50°-60°	5759.9	21.1
60°-70°	7683.1	28.1
70°-80°	4639.7	17.0
80°-90°	839.7	3.1
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°	27341.0	100.0
0°-180°	27341.0	100.0

Coefficient of Utilization



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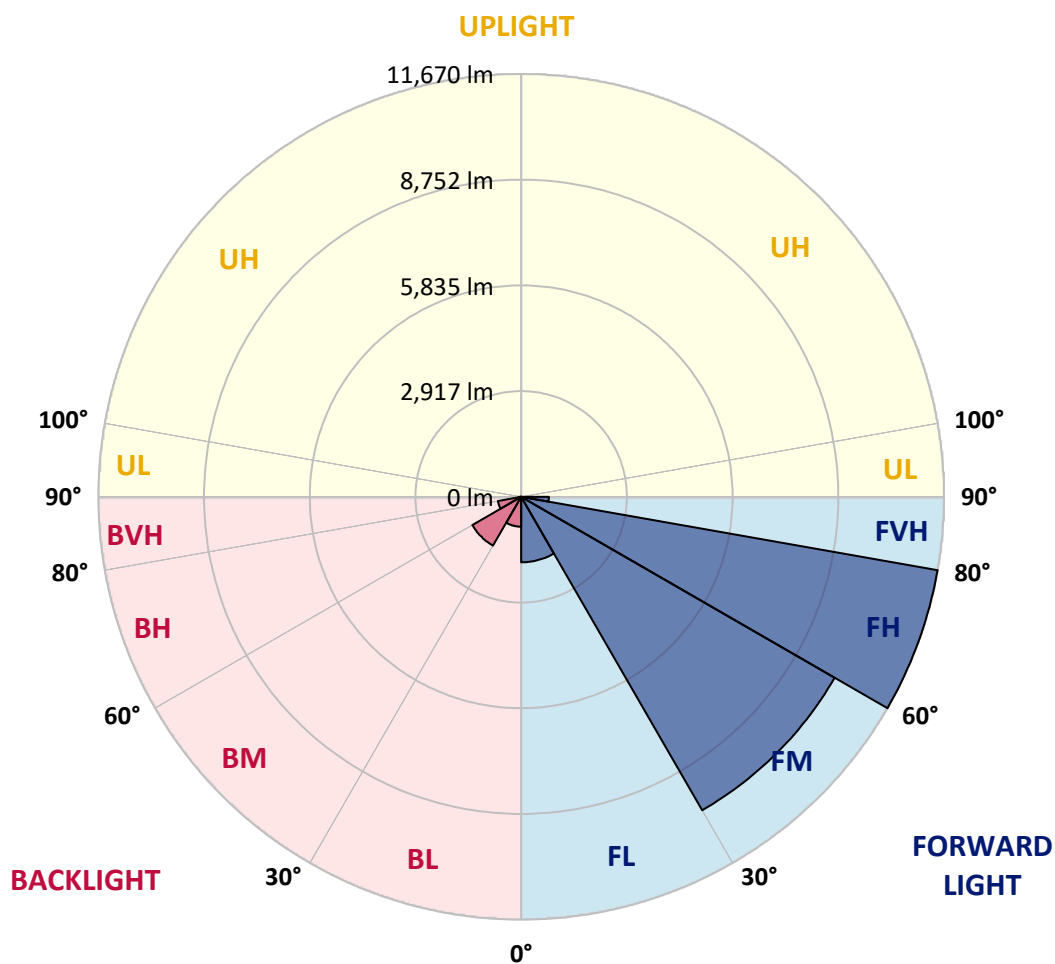
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.1	6.6			
FM	(30°-60°)	9989.4	36.5			
FH	(60°-80°)	11670.0	42.7			G4/12000
FVH	(80°-90°)	764.0	2.8			G5
BL	(0°-30°)	824.9	3.0	B2/1000		
BM	(30°-60°)	1556.2	5.7	B2/2500		
BH	(60°-80°)	652.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	75.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8
2.5°	4231.4	4230.1	4218.9	4210.6	4203.6	4200.8	4206.4	4185.5	4167.4	4145.2	4121.6
5°	4199.5	4198.1	4179.9	4163.4	4146.6	4141.0	4139.8	4102.1	4079.8	4046.5	4002.0
7.5°	4164.8	4157.8	4134.2	4106.3	4077.1	4063.3	4049.3	4000.6	3975.6	3942.3	3890.8
10°	4128.6	4120.1	4098.0	4070.1	4042.4	4021.5	3997.9	3950.6	3924.1	3899.1	3839.4
12.5°	4091.0	4084.1	4078.5	4066.0	4046.5	4028.5	4010.4	3970.1	3942.3	3913.1	3843.6
15°	4085.4	4082.7	4095.1	4103.6	4092.5	4081.3	4061.8	4027.1	3997.9	3968.8	3878.3
17.5°	4129.9	4128.6	4160.5	4182.8	4177.2	4157.8	4131.3	4092.5	4068.9	4043.8	3931.1
20°	4227.2	4234.3	4273.1	4302.3	4274.6	4246.7	4203.6	4149.4	4136.9	4125.7	3985.3
22.5°	4410.7	4417.7	4445.5	4456.5	4384.3	4344.0	4284.3	4214.7	4206.4	4214.7	4050.7
25°	4697.0	4690.2	4686.0	4644.3	4512.2	4449.7	4373.2	4300.9	4305.2	4342.6	4142.4
27.5°	5076.6	5039.0	4980.7	4855.6	4645.7	4576.1	4483.0	4416.3	4442.7	4515.0	4280.1
30°	5469.9	5428.3	5293.4	5089.1	4820.8	4744.4	4640.1	4565.1	4634.6	4748.5	4463.6
32.5°	5834.2	5828.7	5631.2	5368.5	5062.6	4996.0	4891.7	4806.9	4919.5	5093.2	4738.8
35°	6231.7	6244.2	6007.9	5692.4	5389.3	5319.9	5244.8	5180.8	5331.0	5570.0	5137.8
37.5°	6657.1	6682.2	6402.7	6046.9	5761.9	5732.8	5688.2	5660.4	5892.6	6223.4	5695.1
40°	7225.7	7200.6	6812.8	6447.2	6219.2	6217.8	6204.0	6237.3	6623.8	7076.9	6411.2
42.5°	7834.6	7760.8	7247.9	6876.8	6721.1	6768.3	6796.2	6932.4	7503.7	8113.9	7284.1
45°	8490.6	8325.2	7699.7	7331.3	7278.6	7378.6	7473.2	7769.2	8539.2	9294.1	8240.5
47.5°	9014.7	8854.8	8166.8	7808.1	7923.5	8075.1	8257.0	8725.6	9698.6	10513.3	9184.4
50°	9427.6	9323.3	8638.0	8364.2	8633.7	8867.4	9164.7	9808.4	10905.1	11700.3	10058.6
52.5°	9827.9	9750.1	9113.5	8934.0	9467.9	9790.4	10194.9	10970.5	12142.4	12868.0	10794.0
55°	10189.3	10133.7	9624.9	9644.5	10449.2	10869.1	11377.8	12294.0	13490.8	13909.1	11416.7
57.5°	10596.6	10525.7	10208.7	10535.5	11710.1	12254.9	12916.6	13781.3	14755.8	14835.0	11890.8
60°	11006.7	10945.5	10856.5	11564.1	13311.5	13884.1	14511.0	15222.8	16038.8	15553.7	11863.0
62.5°	11362.5	11369.5	11526.7	12644.2	14879.5	15542.5	16307.1	17010.5	17199.5	15678.8	10985.8
65°	11965.8	12075.7	12544.2	14173.3	17086.9	17973.8	18912.1	18799.4	17520.6	14509.7	9105.0
67.5°	12683.2	12876.3	13825.7	16211.2	19876.8	21054.3	21417.0	19204.1	16234.9	11794.9	6490.3
70°	12610.8	12876.3	14379.1	17730.5	22176.1	22965.6	21864.6	17380.2	12891.6	7705.3	3447.4
72.5°	11198.5	11577.9	13251.7	17034.1	21451.8	21382.2	18981.6	12956.9	7659.4	3094.3	1346.9
75°	8535.2	8918.9	10358.9	13457.5	16954.9	16371.1	13468.5	7157.6	2906.7	1228.8	849.4
77.5°	4909.8	5207.3	6319.3	8252.9	10756.5	10157.4	7496.8	3183.3	1415.1	856.3	663.1
80°	2741.2	2906.7	3582.3	4187.0	5271.2	4831.9	3354.3	1978.1	1056.4	621.3	511.6
82.5°	2167.1	2314.4	2896.9	2641.2	2407.6	2221.3	1926.7	1761.3	843.8	392.0	305.8
85°	1893.3	2033.7	2452.1	2079.5	1644.5	1508.3	1565.2	1733.4	656.1	236.3	261.3
87.5°	1754.2	1942.0	2185.1	1602.8	1280.3	1134.3	1444.3	1900.2	211.3	147.4	105.7
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°	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8	4150.8
2.5°	4100.7	4078.5	4042.4	4010.4	3960.3	3934.0	3904.7	3883.9	3867.2	3853.3	3875.5
5°	3974.3	3932.6	3856.1	3774.1	3676.8	3600.3	3536.4	3476.6	3434.9	3407.1	3426.6
7.5°	3854.6	3786.6	3667.1	3518.2	3351.5	3209.7	3092.9	2990.1	2919.2	2873.3	2891.3
10°	3786.6	3701.8	3516.9	3283.3	3037.3	2816.2	2632.8	2474.4	2364.5	2302.0	2311.7
12.5°	3769.9	3660.0	3404.3	3083.2	2746.8	2439.6	2181.1	1961.4	1807.1	1726.6	1729.2
15°	3782.4	3642.0	3298.6	2891.3	2466.0	2078.2	1755.7	1488.7	1309.5	1217.7	1216.3
17.5°	3803.4	3628.2	3187.4	2684.3	2181.1	1730.6	1370.6	1109.3	950.8	877.2	871.6
20°	3825.5	3605.9	3062.3	2460.4	1884.9	1408.2	1073.2	868.8	768.7	728.4	725.6
22.5°	3857.5	3586.4	2933.1	2224.1	1594.4	1146.7	882.7	745.0	692.2	671.4	668.6
25°	3909.0	3576.7	2795.5	1978.1	1333.1	959.2	768.7	684.0	653.4	639.3	638.1
27.5°	3995.1	3590.6	2666.2	1739.0	1120.5	832.7	704.7	653.4	631.1	618.6	617.2
30°	4106.3	3633.6	2530.0	1512.3	955.0	746.5	665.8	632.5	614.4	601.9	601.9
32.5°	4291.1	3706.0	2386.8	1316.5	836.8	686.7	636.7	614.4	599.2	589.4	588.1
35°	4563.6	3842.2	2253.4	1153.8	752.0	643.6	611.7	594.9	583.9	578.3	578.3
37.5°	4959.9	4057.7	2135.2	1037.0	700.6	614.4	588.1	575.5	568.5	568.5	568.5
40°	5492.3	4355.2	2039.3	959.2	671.4	593.6	569.9	560.2	556.0	557.4	557.4
42.5°	6149.7	4741.7	1975.3	905.0	657.5	581.0	557.4	549.1	544.8	543.6	544.8
45°	6898.9	5180.8	1968.3	864.7	643.6	572.7	549.1	540.8	532.4	526.8	526.8
47.5°	7627.4	5627.1	2025.3	850.7	628.4	563.0	542.2	533.8	521.2	508.8	508.8
50°	8271.0	6006.5	2101.8	856.3	622.8	549.1	531.0	526.8	507.4	493.6	492.1
52.5°	8782.6	6298.5	2164.3	873.0	628.4	539.3	517.2	518.6	497.6	482.4	481.0
55°	9192.6	6490.3	2147.7	889.7	640.8	533.8	504.6	507.4	490.7	475.4	475.4
57.5°	9371.9	6419.4	1962.9	875.7	650.5	535.2	494.8	506.0	492.1	478.2	478.2
60°	8986.9	5789.7	1616.7	814.6	638.1	531.0	490.7	511.6	510.1	496.2	494.8
62.5°	7822.0	4662.3	1253.9	724.3	594.9	510.1	479.5	510.1	525.4	521.2	519.8
65°	6028.8	3320.9	957.7	626.9	536.6	475.4	450.3	478.2	499.0	504.6	503.2
67.5°	3913.1	2035.1	738.1	535.2	471.2	435.1	412.9	425.3	429.5	429.5	426.7
70°	1923.8	1095.5	588.1	450.3	404.5	392.0	379.4	372.6	365.6	360.0	360.0
72.5°	949.5	715.8	483.8	380.9	348.9	343.4	340.6	332.2	326.6	319.7	317.0
75°	702.0	582.5	411.5	321.1	300.3	294.7	300.3	293.4	291.9	286.4	283.5
77.5°	576.9	496.2	354.4	275.3	257.2	247.5	255.7	257.2	258.5	250.2	247.5
80°	468.5	419.8	296.1	228.1	211.3	204.4	209.9	221.0	223.8	211.3	205.7
82.5°	337.8	343.4	239.1	178.0	164.0	158.4	169.6	183.4	186.3	168.2	164.0
85°	283.5	286.4	183.4	126.5	112.6	104.3	122.4	136.2	146.0	127.9	123.7
87.5°	118.1	168.2	105.7	70.9	62.6	54.2	65.3	72.3	87.6	80.7	79.2
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)