

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: P529102

Luminaire Tested: **GALN-SA4B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16050 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

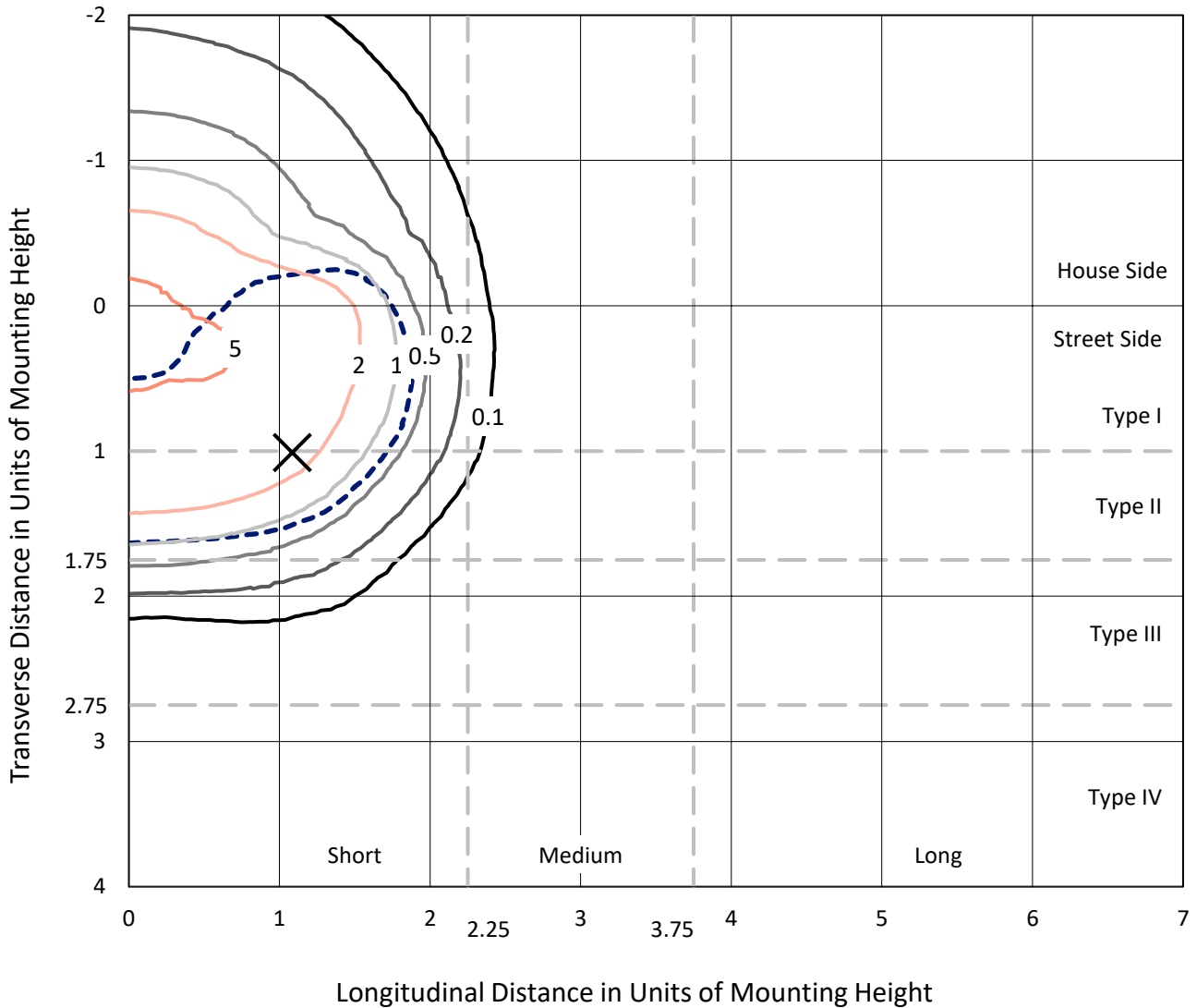
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

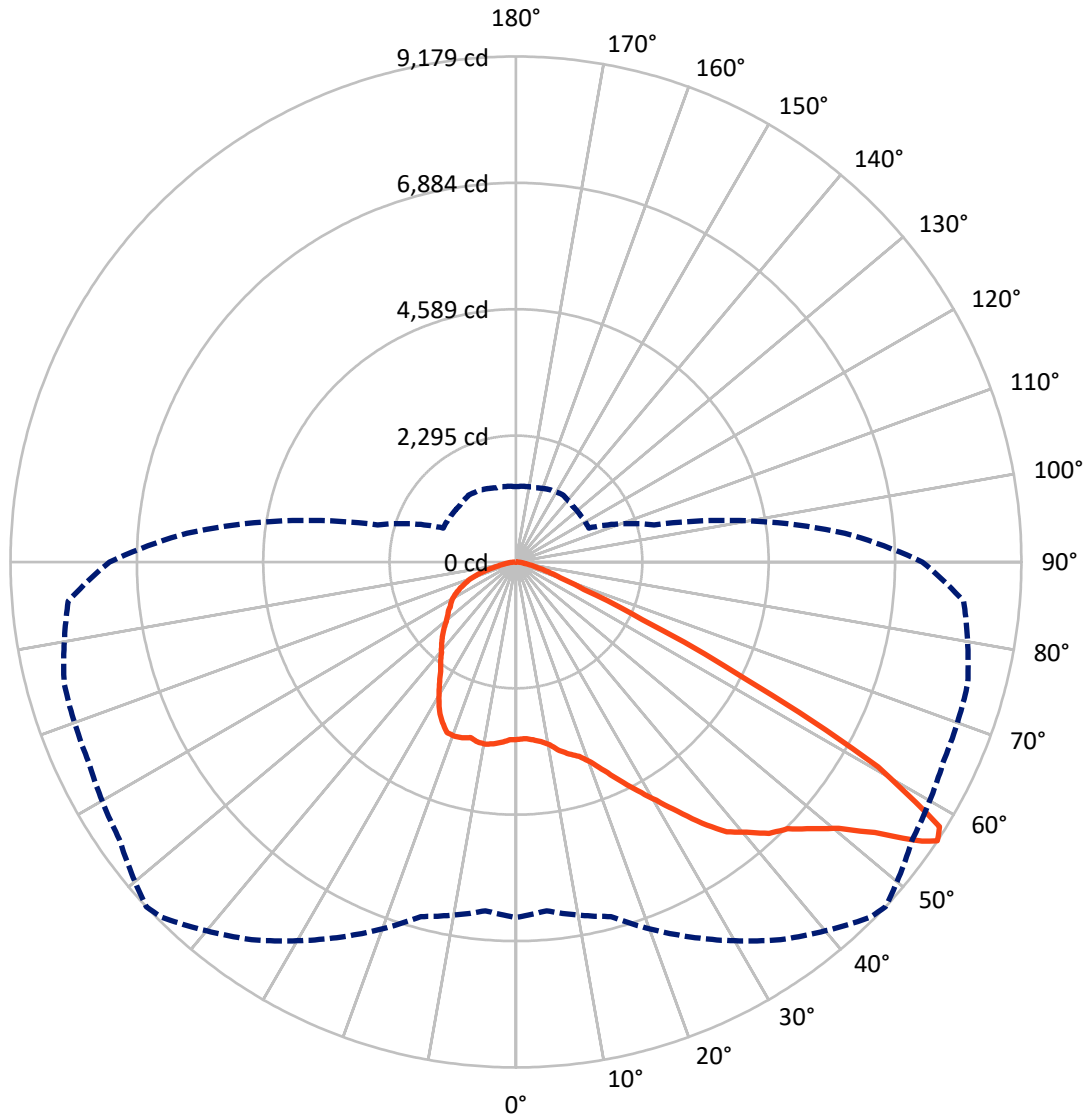
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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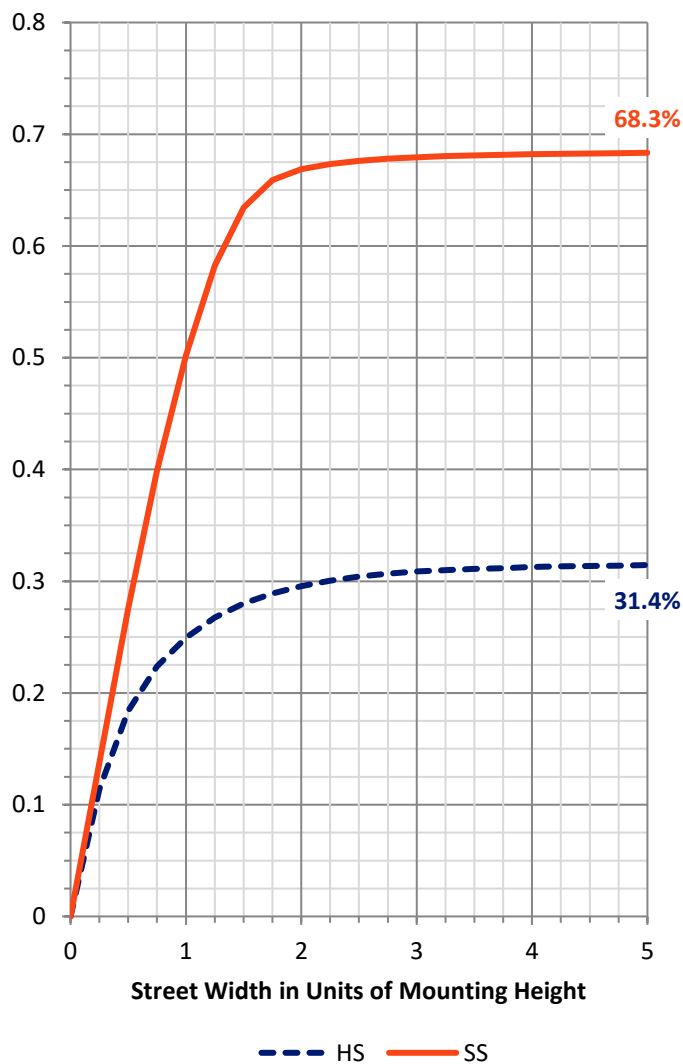
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5086.1	0.0	5086.1
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	10963.9	0.0	10963.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	16050.0	0.0	16050.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.1	2.0
10°-20°	990.9	6.2
20°-30°	1751.7	10.9
30°-40°	2631.0	16.4
40°-50°	3610.8	22.5
50°-60°	4301.8	26.8
60°-70°	1840.9	11.5
70°-80°	521.0	3.2
80°-90°	87.7	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°	16050.0	100.0
0°-180°	16050.0	100.0

**Coefficient of Utilization**

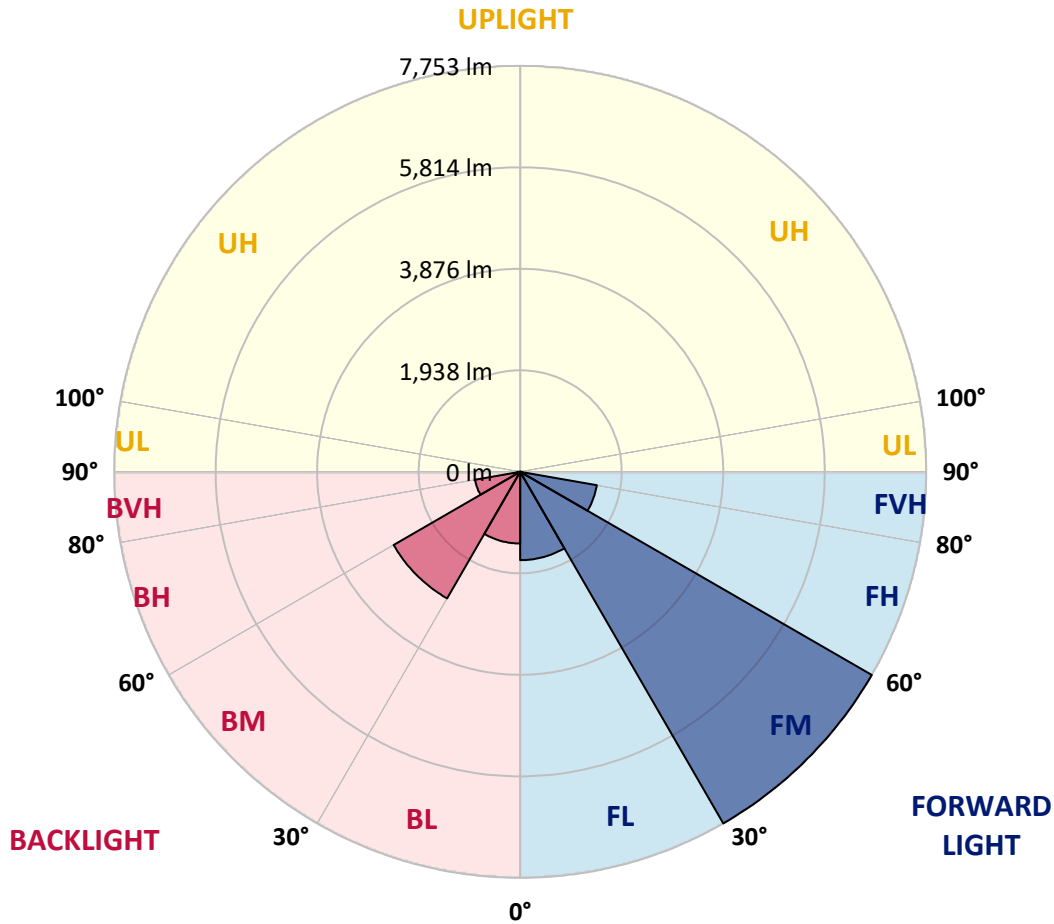


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.4	10.5			
FM (30°-60°)	7752.5	48.3			
FH (60°-80°)	1486.8	9.3			G1/1800
FVH (80°-90°)	37.2	0.2			G1/100
BL (0°-30°)	1369.4	8.5	B3/2500		
BM (30°-60°)	2791.1	17.4	B3/5000		
BH (60°-80°)	875.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	50.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0
2.5°	3211.7	3205.5	3201.4	3234.2	3221.9	3224.0	3211.7	3224.0	3232.1	3213.7	3240.3
5°	3205.5	3224.0	3207.6	3217.8	3244.4	3236.2	3244.4	3269.0	3262.8	3256.7	3248.5
7.5°	3262.8	3264.9	3277.2	3281.3	3289.5	3281.3	3293.6	3316.1	3309.9	3275.1	3279.2
10°	3344.7	3348.8	3350.9	3373.4	3387.7	3389.8	3375.4	3355.0	3352.9	3400.0	3367.2
12.5°	3438.9	3428.7	3453.2	3461.4	3477.8	3496.2	3514.6	3471.6	3498.2	3500.3	3461.4
15°	3576.0	3586.3	3557.6	3557.6	3563.8	3565.8	3617.0	3596.5	3592.4	3569.9	3586.3
17.5°	3780.7	3711.1	3709.1	3680.4	3676.3	3692.7	3711.1	3727.5	3782.8	3737.7	3649.7
20°	3930.2	3946.5	3887.2	3852.4	3858.5	3895.4	3876.9	3950.6	3989.5	3915.8	3829.9
22.5°	4194.2	4138.9	4153.3	4075.5	4081.6	4120.5	4118.5	4194.2	4216.7	4100.1	3975.2
25°	4372.3	4358.0	4370.3	4308.8	4317.0	4347.7	4396.9	4521.7	4484.9	4355.9	4067.3
27.5°	4632.3	4603.6	4593.4	4570.9	4562.7	4644.5	4701.9	4834.9	4808.3	4620.0	4231.1
30°	4898.4	4879.9	4890.2	4798.1	4830.8	5004.8	5021.2	5203.4	5191.1	4859.5	4413.2
32.5°	5082.6	5092.8	5111.3	5060.1	5205.4	5344.6	5399.9	5606.6	5616.9	5270.9	4765.3
35°	5379.4	5344.6	5354.8	5414.2	5481.8	5735.6	5825.6	5962.8	6048.8	5702.8	5103.1
37.5°	5565.7	5602.5	5559.5	5653.7	5829.7	6134.7	6216.6	6357.8	6447.9	6128.6	5563.6
40°	5856.3	5797.0	5827.7	5895.2	6075.4	6472.5	6450.0	6595.3	6624.0	6490.9	5993.5
42.5°	6169.5	6140.9	6097.9	6251.4	6402.9	6691.5	6736.5	6669.0	6814.3	6845.0	6607.6
45°	6544.1	6578.9	6585.1	6589.2	6722.2	6974.0	6912.6	6853.2	7021.1	7244.2	6988.3
47.5°	6892.1	6781.6	6861.4	6971.9	7160.3	7162.3	7233.9	7092.7	7270.8	7469.3	7332.2
50°	7008.8	6955.6	7062.0	7270.8	7561.5	7592.2	7600.4	7399.7	7491.9	7649.5	7450.9
52.5°	6963.7	6945.3	7217.6	7541.0	7966.8	8122.3	8163.3	7915.6	7966.8	7895.1	7712.9
55°	6748.8	6804.1	7078.4	7737.5	8390.5	8871.5	8949.3	8636.1	8310.6	8365.9	8165.3
56°	6454.1	6357.8	6664.9	7514.4	8372.1	9115.1	9178.6	8787.6	8566.5	8494.9	8161.2
57.5°	5475.6	5350.7	5754.0	6761.1	7907.4	9023.0	9070.1	8851.0	8523.5	8378.2	7565.6
60°	3205.5	3266.9	3778.7	4663.0	6099.9	7397.7	7555.3	7715.0	7496.0	6845.0	5631.2
62.5°	1547.5	1508.6	1875.0	2673.3	3717.3	4722.3	4675.2	5123.5	5369.2	4863.6	3555.6
65°	810.6	806.5	1023.5	1459.5	2042.9	2480.9	2523.9	2765.4	3103.2	2505.5	1805.4
67.5°	595.7	612.0	720.5	1025.5	1314.1	1340.8	1334.6	1455.4	1488.1	1258.9	1109.5
70°	466.7	474.9	554.7	779.9	978.4	876.1	857.7	872.0	968.2	1009.1	960.0
72.5°	337.7	345.9	413.5	526.1	612.0	597.7	610.0	689.8	808.5	851.5	800.4
75°	225.2	231.3	268.2	321.4	362.3	391.0	413.5	505.6	616.1	640.7	616.1
77.5°	155.6	161.7	186.3	227.2	231.3	249.7	257.9	300.9	368.5	399.2	382.8
80°	88.0	88.0	100.3	116.7	143.3	167.9	171.9	206.7	237.4	257.9	262.0
82.5°	40.9	43.0	53.2	71.6	94.2	116.7	120.8	143.3	165.8	186.3	192.4
85°	20.5	22.5	30.7	43.0	57.3	69.6	67.5	69.6	73.7	69.6	71.6
87.5°	6.1	6.1	8.2	10.2	8.2	10.2	10.2	12.3	14.3	16.4	18.4
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°	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0
2.5°	3242.4	3248.5	3207.6	3246.5	3232.1	3230.1	3258.8	3254.7	3264.9	3260.8	3236.2
5°	3244.4	3230.1	3273.1	3234.2	3252.6	3291.5	3264.9	3326.3	3295.6	3316.1	3271.0
7.5°	3307.9	3312.0	3303.8	3320.2	3312.0	3330.4	3316.1	3330.4	3305.8	3307.9	3348.8
10°	3363.2	3350.9	3365.2	3344.7	3359.1	3352.9	3320.2	3309.9	3318.1	3307.9	3334.5
12.5°	3465.5	3443.0	3432.7	3408.2	3391.8	3330.4	3279.2	3250.6	3289.5	3295.6	3283.3
15°	3569.9	3571.9	3524.9	3469.6	3367.2	3275.1	3287.4	3297.6	3297.6	3314.0	3283.3
17.5°	3635.4	3635.4	3592.4	3481.9	3377.5	3324.3	3312.0	3279.2	3250.6	3246.5	3244.4
20°	3750.0	3715.2	3617.0	3479.8	3373.4	3348.8	3256.7	3178.9	3119.6	3099.1	3097.0
22.5°	3881.0	3793.0	3655.9	3483.9	3367.2	3332.4	3160.5	3043.8	2937.4	2892.4	2898.5
25°	4001.8	3860.6	3678.4	3465.5	3344.7	3176.9	2984.5	2822.8	2712.2	2675.4	2657.0
27.5°	4085.7	3932.2	3678.4	3481.9	3260.8	3002.9	2806.4	2599.6	2503.4	2478.9	2483.0
30°	4198.3	4022.3	3741.8	3447.1	3093.0	2777.7	2542.3	2407.2	2349.9	2329.4	2343.8
32.5°	4462.4	4257.7	3829.9	3363.2	2894.4	2552.6	2362.2	2286.5	2202.5	2161.6	2147.3
35°	4748.9	4480.8	3915.8	3221.9	2671.3	2347.9	2229.1	2159.5	2059.2	2014.2	2022.4
37.5°	5154.2	4767.4	3922.0	2988.6	2429.7	2233.2	2124.7	2016.3	1934.4	1864.8	1844.3
40°	5700.8	5158.3	3907.6	2742.9	2235.3	2098.1	2018.3	1883.2	1791.1	1742.0	1752.2
42.5°	6181.8	5616.9	3848.3	2464.5	2059.2	2006.0	1916.0	1782.9	1692.8	1641.7	1637.6
45°	6587.1	5954.6	3735.7	2227.1	1911.9	1903.7	1799.3	1696.9	1625.3	1578.2	1598.7
47.5°	6961.7	6226.8	3565.8	1989.6	1776.8	1793.1	1692.8	1629.4	1584.3	1541.4	1539.3
50°	7096.8	6222.7	3416.4	1793.1	1668.3	1660.1	1656.0	1588.4	1541.4	1504.5	1520.9
52.5°	7322.0	6292.3	3254.7	1658.0	1570.0	1572.1	1586.4	1537.3	1484.0	1461.5	1482.0
55°	7645.4	6302.6	2898.5	1500.4	1488.1	1502.5	1502.5	1469.7	1424.7	1406.3	1396.0
56°	7381.3	5997.6	2599.6	1459.5	1447.2	1447.2	1486.1	1449.2	1394.0	1379.6	1367.4
57.5°	6808.2	5254.5	2175.9	1410.4	1391.9	1420.6	1441.1	1402.2	1351.0	1330.5	1342.8
60°	4695.7	3555.6	1635.5	1303.9	1303.9	1351.0	1367.4	1310.1	1287.5	1285.5	1269.1
62.5°	2740.9	2071.5	1279.3	1207.7	1211.8	1250.7	1263.0	1230.2	1201.6	1236.4	1252.7
65°	1453.3	1236.4	1097.2	1105.4	1107.4	1138.1	1191.3	1189.3	1187.2	1197.5	1199.5
67.5°	1052.1	1027.6	996.9	988.7	992.8	1015.3	1068.5	1109.5	1107.4	1082.8	1064.4
70°	937.5	902.7	884.3	886.3	870.0	896.6	939.6	966.2	919.1	890.4	878.1
72.5°	779.9	769.7	757.4	759.4	726.7	720.5	671.4	671.4	659.1	650.9	665.3
75°	595.7	591.6	597.7	587.5	552.7	515.8	487.2	460.6	419.6	403.3	395.1
77.5°	376.6	388.9	403.3	380.7	366.4	339.8	311.1	284.5	251.8	233.4	233.4
80°	255.9	266.1	276.3	272.2	255.9	231.3	208.8	180.1	157.6	143.3	141.2
82.5°	194.5	202.6	217.0	200.6	184.2	163.8	145.3	124.9	104.4	88.0	88.0
85°	69.6	79.8	88.0	96.2	102.3	104.4	90.1	73.7	59.4	47.1	45.0
87.5°	18.4	20.5	22.5	20.5	20.5	20.5	22.5	20.5	18.4	14.3	14.3
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)