

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: P534014

Luminaire Tested: **GALN-SA9C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46839 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

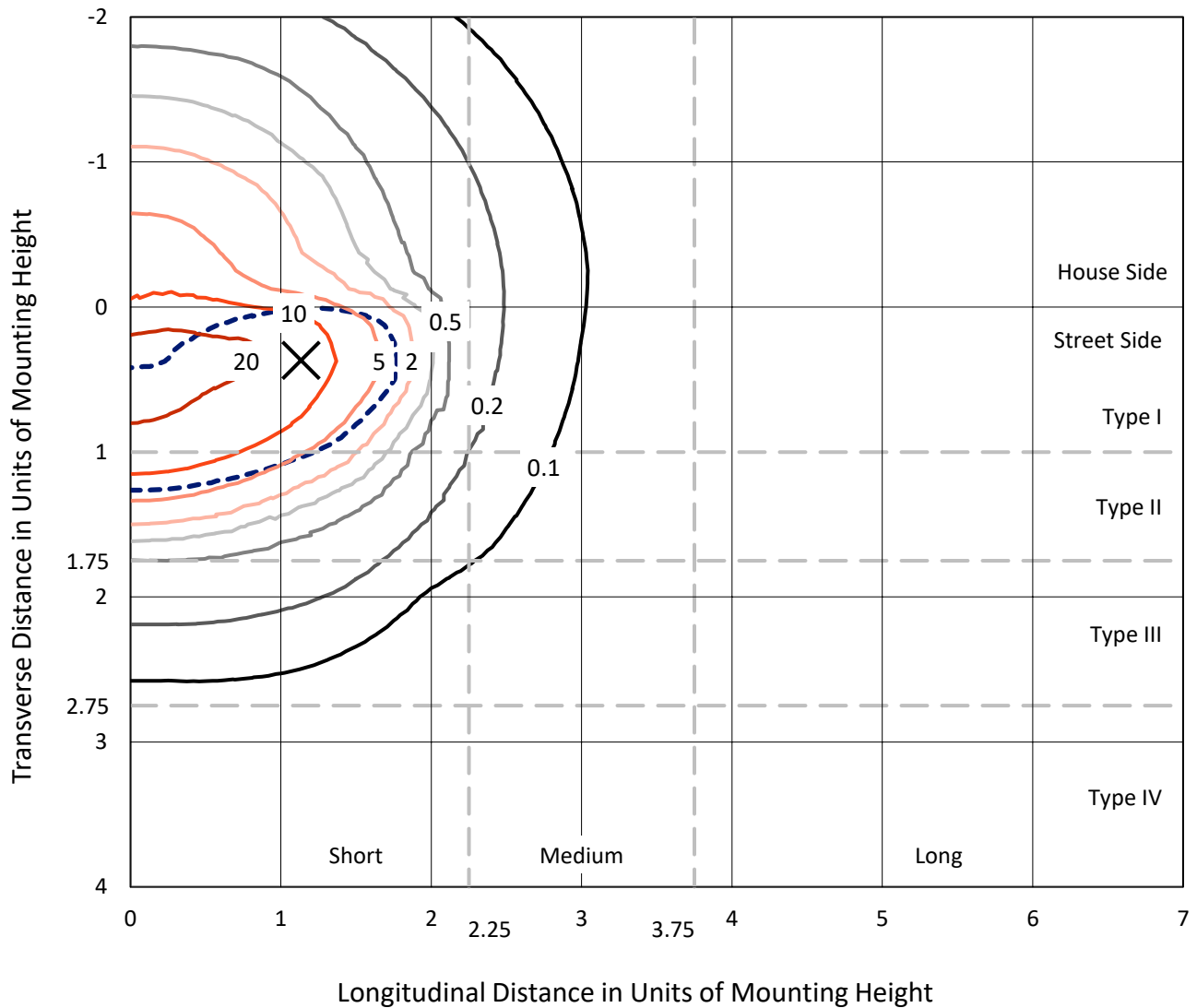
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

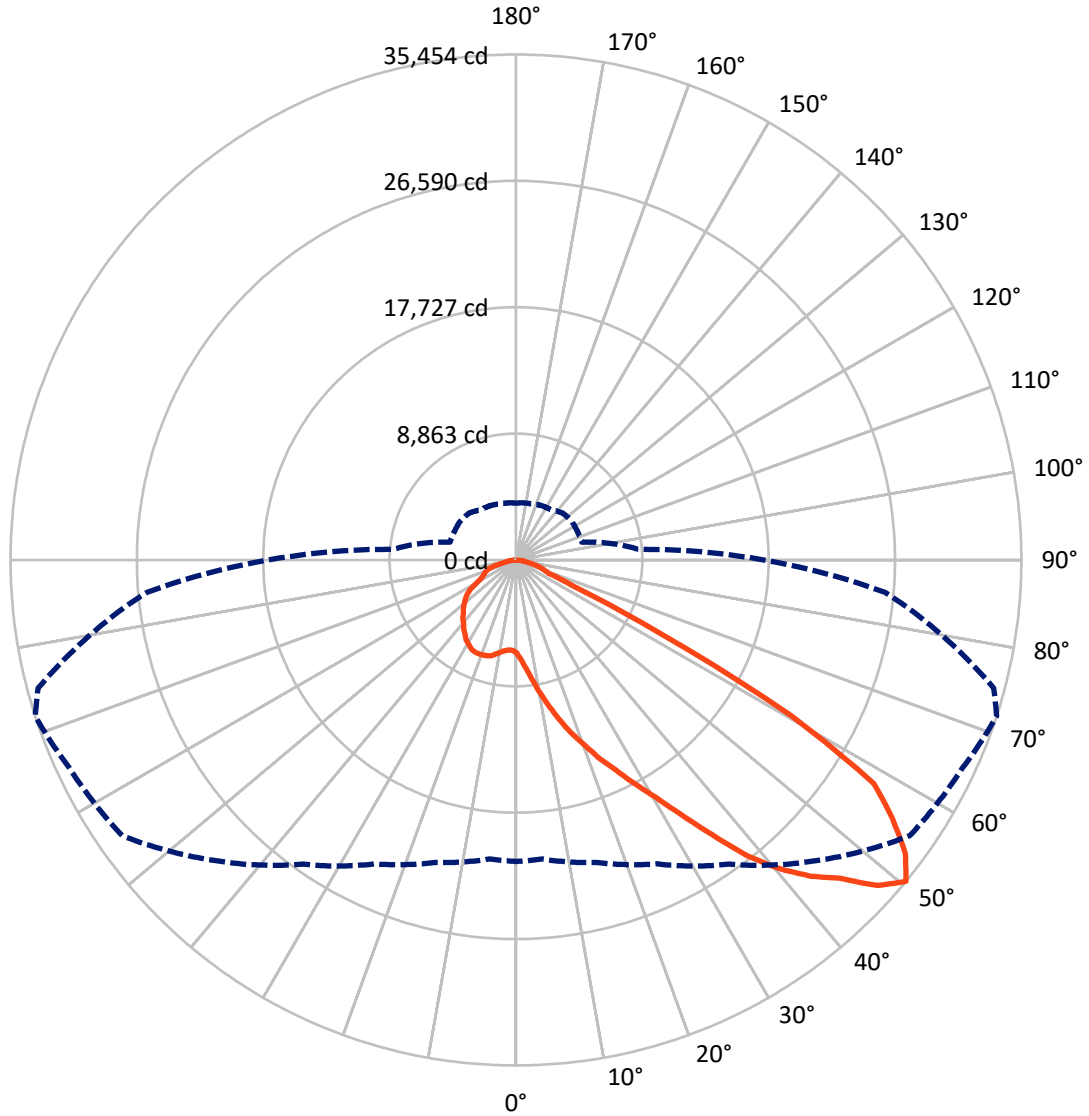
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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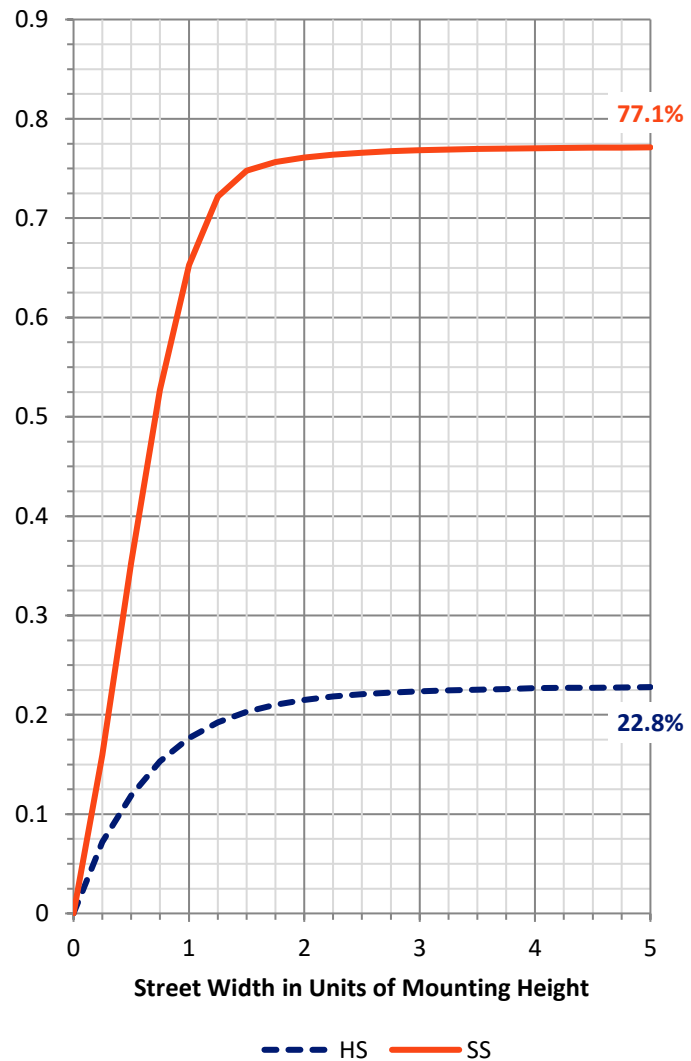
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10731.1	0.0	10731.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	36107.9	0.0	36107.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	46839.0	0.0	46839.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	767.0	1.6
10°-20°	2867.2	6.1
20°-30°	5559.2	11.9
30°-40°	9209.7	19.7
40°-50°	12886.4	27.5
50°-60°	10871.3	23.2
60°-70°	3313.6	7.1
70°-80°	1162.5	2.5
80°-90°	202.1	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°	46839.0	100.0
0°-180°	46839.0	100.0



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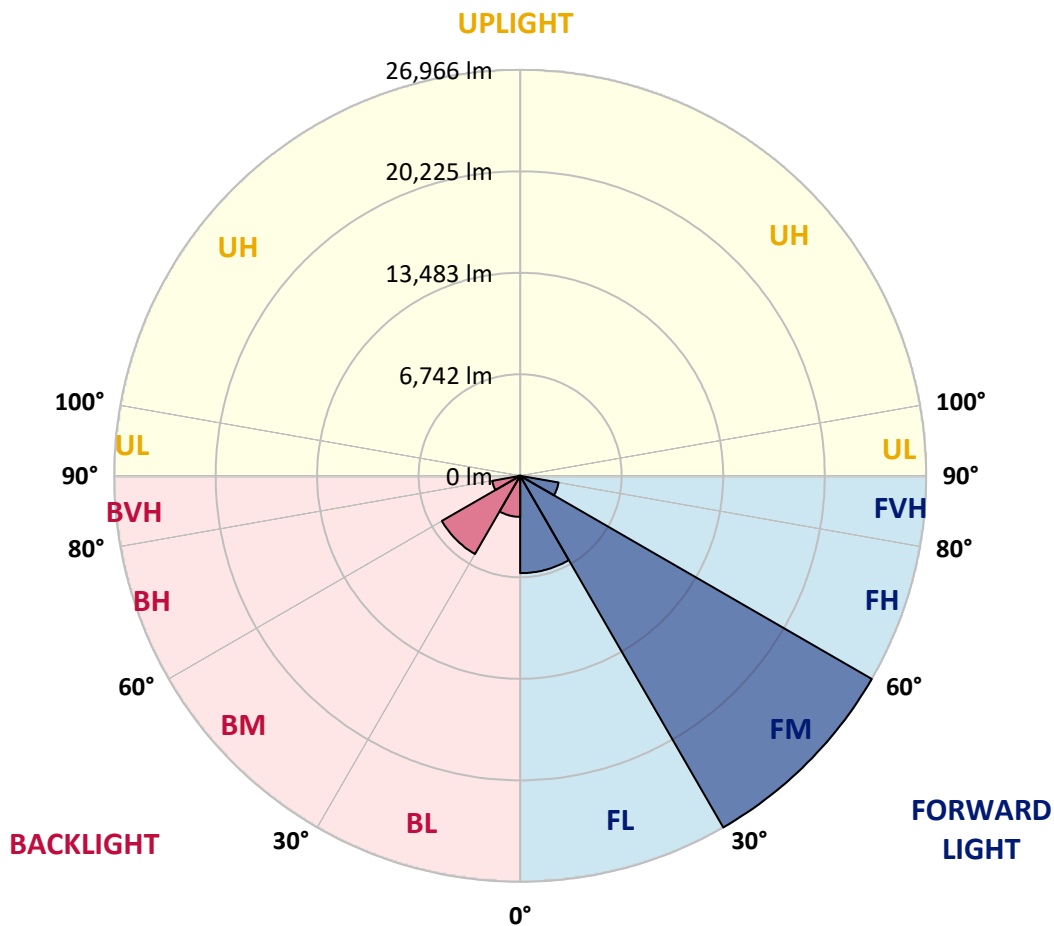
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6465.5	13.8			
FM (30°-60°)	26966.5	57.6			
FH (60°-80°)	2585.4	5.5			G2/5000
FVH (80°-90°)	90.5	0.2			G1/100
BL (0°-30°)	2727.9	5.8	B4/5000		
BM (30°-60°)	6001.0	12.8	B4/8500		
BH (60°-80°)	1890.6	4.0	B3/2500		G3/2500
BVH (80°-90°)	111.6	0.2			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°	55°	65°	72°	75°	85°
0°	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4
2.5°	8386.7	8334.5	8178.0	8125.9	7940.4	7604.2	7488.3	7146.3	7001.4	6868.1	6711.7
5°	10606.5	10363.1	10345.7	10050.1	9621.2	9372.0	8630.1	8131.6	7673.8	7441.9	7013.0
7.5°	12020.7	12026.5	12026.5	11783.1	11441.1	10809.4	10142.8	9244.5	8554.7	8212.8	7482.5
10°	13365.3	13249.4	13185.7	13162.5	12930.7	12316.3	11603.4	10490.6	9545.8	9145.9	7836.1
12.5°	14315.9	14217.3	14362.2	14286.9	14118.8	13718.9	13046.6	11777.3	10594.9	10055.9	8404.1
15°	14768.0	14837.5	14953.4	15162.1	15086.7	14936.0	14194.2	13098.7	11725.1	11116.5	8908.3
17.5°	15463.5	15272.2	15411.3	15672.1	15880.8	15811.2	15388.1	14055.1	12843.7	12096.0	9586.4
20°	15950.3	15840.2	15909.7	16211.1	16367.6	16761.7	16541.5	15307.0	13916.0	13127.7	10386.3
22.5°	17341.3	17179.0	16953.0	16999.4	17057.3	17335.5	17387.7	16680.6	15162.1	14327.5	11145.5
25°	19056.9	18906.2	18639.6	18367.2	18199.1	18147.0	18326.6	17758.6	16356.0	15492.4	11962.7
27.5°	20946.4	20691.4	20523.3	19961.1	19509.0	19439.5	19352.5	19045.3	17770.2	16837.1	12884.3
30°	22783.7	22580.8	22354.8	21456.4	20987.0	20911.6	20482.7	20569.7	19306.1	18268.7	13927.5
32.5°	24174.7	24192.1	23676.3	22998.1	22557.6	22157.7	22001.2	22250.5	21276.8	20442.1	15092.5
35°	25299.1	25351.3	24858.6	24244.3	23769.0	24047.2	23977.6	24093.6	23629.9	22609.8	16448.8
37.5°	26394.5	26133.7	25606.3	25310.7	25061.5	25519.4	26110.5	26209.1	26296.0	25096.2	18025.3
40°	26574.2	26597.4	26290.2	26498.9	26185.9	26875.6	28249.2	28121.7	28475.3	27426.2	19735.0
42.5°	26319.2	26371.3	26493.1	26788.7	27542.1	28370.9	30411.1	29889.5	30318.4	29385.2	21398.5
45°	25901.9	25687.4	25838.1	26962.5	28266.6	30109.7	32387.5	31981.8	31842.7	31060.2	23380.7
47.5°	23908.1	24128.3	24597.8	25983.0	27942.0	30411.1	33790.1	33697.4	34114.7	33564.1	25183.2
50°	21143.4	21056.5	21960.7	23519.8	26046.8	29819.9	33714.8	34555.2	35453.5	34688.5	25988.8
52.5°	15834.4	16298.1	17074.7	19010.6	22615.6	26597.4	32068.7	33471.3	34201.6	34039.3	25339.7
55°	10009.5	10148.6	10618.1	12919.1	16164.8	21346.3	27490.0	30741.5	32045.5	32654.1	24742.7
57.5°	4862.8	4601.9	5175.7	7024.6	9337.2	14356.4	21201.4	26777.1	29611.3	30712.5	23444.4
60°	2538.6	2637.1	2863.2	3523.9	4828.0	7453.5	13214.7	17845.6	22175.1	23867.5	17770.2
62.5°	2103.9	2138.7	2289.4	2619.7	3210.9	4289.0	6746.4	8699.6	11307.8	12832.1	10108.1
65°	1785.1	1802.5	1964.8	2185.1	2561.8	3019.7	3471.7	3634.0	4399.1	4515.0	3593.5
67.5°	1489.5	1506.9	1680.8	1889.5	2132.9	2254.6	2370.5	2358.9	2445.9	2411.1	2405.3
70°	1147.6	1165.0	1344.6	1564.9	1686.6	1617.1	1976.4	2057.5	2092.3	2121.3	2167.7
72.5°	828.8	863.6	1002.7	1159.2	1095.4	1257.7	1628.6	1750.4	1796.7	1814.1	1872.1
75°	602.8	614.4	649.1	602.8	695.5	875.2	1147.6	1298.3	1356.2	1373.6	1460.6
77.5°	266.6	272.4	278.2	347.8	446.3	544.8	683.9	805.6	886.8	910.0	933.1
80°	139.1	144.9	179.7	237.6	318.8	399.9	498.4	568.0	620.2	626.0	649.1
82.5°	86.9	92.7	127.5	168.1	226.0	295.6	365.1	423.1	463.7	469.5	475.3
85°	40.6	52.2	75.3	104.3	150.7	191.3	197.1	168.1	179.7	185.5	173.9
87.5°	11.6	17.4	23.2	17.4	23.2	23.2	29.0	34.8	34.8	34.8	40.6
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°	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4
2.5°	6624.7	6572.6	6369.7	6294.3	6097.3	6132.1	6027.7	6021.9	5998.8	5993.0	5987.2
5°	6787.0	6624.7	6381.3	6195.8	6085.7	6074.1	5998.8	5998.8	6021.9	6039.3	5998.8
7.5°	7053.6	6868.1	6456.6	6282.8	6184.2	6166.8	6114.7	6074.1	6126.3	6108.9	6062.5
10°	7360.8	7036.2	6601.5	6450.8	6288.6	6248.0	6248.0	6265.4	6178.4	6207.4	6161.0
12.5°	7702.8	7268.1	6787.0	6613.1	6421.9	6398.7	6387.1	6259.6	6305.9	6282.8	6166.8
15°	8137.4	7534.7	7024.6	6729.0	6566.8	6462.4	6311.7	6288.6	6259.6	6201.6	6149.5
17.5°	8606.9	7824.5	7134.8	6763.8	6520.4	6445.0	6329.1	6207.4	6120.5	6132.1	6091.5
20°	9006.8	8091.1	7175.3	6798.6	6485.6	6340.7	6161.0	6085.7	5993.0	5987.2	5981.4
22.5°	9482.1	8450.4	7233.3	6705.9	6381.3	6230.6	6108.9	5975.6	5911.8	5830.7	5871.2
25°	10050.1	8589.5	7244.9	6653.7	6305.9	6039.3	5975.6	5830.7	5807.5	5691.6	5714.8
27.5°	10461.6	8664.9	7152.1	6491.4	6132.1	5929.2	5813.3	5709.0	5668.4	5581.5	5558.3
30°	11012.2	8780.8	6955.1	6288.6	5958.2	5732.1	5662.6	5639.4	5523.5	5430.8	5419.2
32.5°	11638.2	8856.1	6827.6	6079.9	5778.5	5604.6	5639.4	5529.3	5384.4	5303.2	5280.1
35°	12136.6	8885.1	6508.8	5842.3	5656.8	5546.7	5506.1	5482.9	5274.3	5198.9	5141.0
37.5°	12895.9	8821.4	6242.2	5674.2	5523.5	5482.9	5448.1	5291.7	5054.0	4943.9	4862.8
40°	13782.7	8804.0	5900.2	5436.6	5396.0	5442.4	5338.0	5094.6	4764.2	4642.5	4584.6
42.5°	14634.6	8925.7	5685.8	5309.0	5256.9	5274.3	5129.4	4764.2	4601.9	4532.4	4439.7
45°	16060.4	9180.7	5332.2	5112.0	5088.8	5077.2	4903.3	4520.8	4428.1	4341.1	4323.7
47.5°	17347.1	9012.6	5106.2	4909.1	4932.3	4868.6	4497.6	4375.9	4271.6	4184.6	4155.7
50°	17422.5	8612.7	4787.4	4752.6	4758.4	4648.3	4294.8	4213.6	4080.3	4022.4	3981.8
52.5°	17028.4	7957.8	4491.8	4503.4	4520.8	4341.1	4045.5	3987.6	3877.5	3796.3	3773.1
55°	15921.3	6937.7	4202.0	4248.4	4294.8	3952.8	3860.1	3715.2	3628.2	3512.3	3518.1
57.5°	14026.1	5587.2	3796.3	3871.7	3970.2	3593.5	3523.9	3344.2	3216.7	3124.0	3112.4
60°	9401.0	3976.0	3187.7	3216.7	3437.0	3286.3	3280.5	3100.8	2926.9	2845.8	2799.4
62.5°	5546.7	3037.1	2753.1	2724.1	2718.3	2805.2	2950.1	2886.4	2660.3	2503.8	2550.2
65°	2903.7	2625.5	2561.8	2463.3	2405.3	2382.1	2492.2	2521.2	2370.5	2202.4	2190.9
67.5°	2440.1	2440.1	2387.9	2353.1	2272.0	2173.5	2103.9	2011.2	1988.0	1941.6	1883.7
70°	2219.8	2277.8	2260.4	2179.3	2109.7	1999.6	1819.9	1669.2	1524.3	1472.2	1506.9
72.5°	1935.8	1993.8	1993.8	1953.2	1860.5	1692.4	1518.5	1344.6	1222.9	1130.2	1118.6
75°	1489.5	1518.5	1588.1	1541.7	1420.0	1315.7	1136.0	956.3	840.4	753.5	736.1
77.5°	950.5	996.9	996.9	991.1	904.2	805.6	689.7	562.2	475.3	411.5	394.1
80°	631.8	660.7	683.9	660.7	602.8	527.4	440.5	353.5	289.8	237.6	226.0
82.5°	463.7	498.4	515.8	492.7	434.7	376.7	313.0	249.2	185.5	144.9	133.3
85°	179.7	185.5	208.7	249.2	243.4	237.6	191.3	139.1	104.3	75.3	69.6
87.5°	46.4	40.6	46.4	46.4	40.6	34.8	34.8	34.8	34.8	17.4	23.2
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)