

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: P530345

Luminaire Tested: **GALN-SA5C-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20769 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

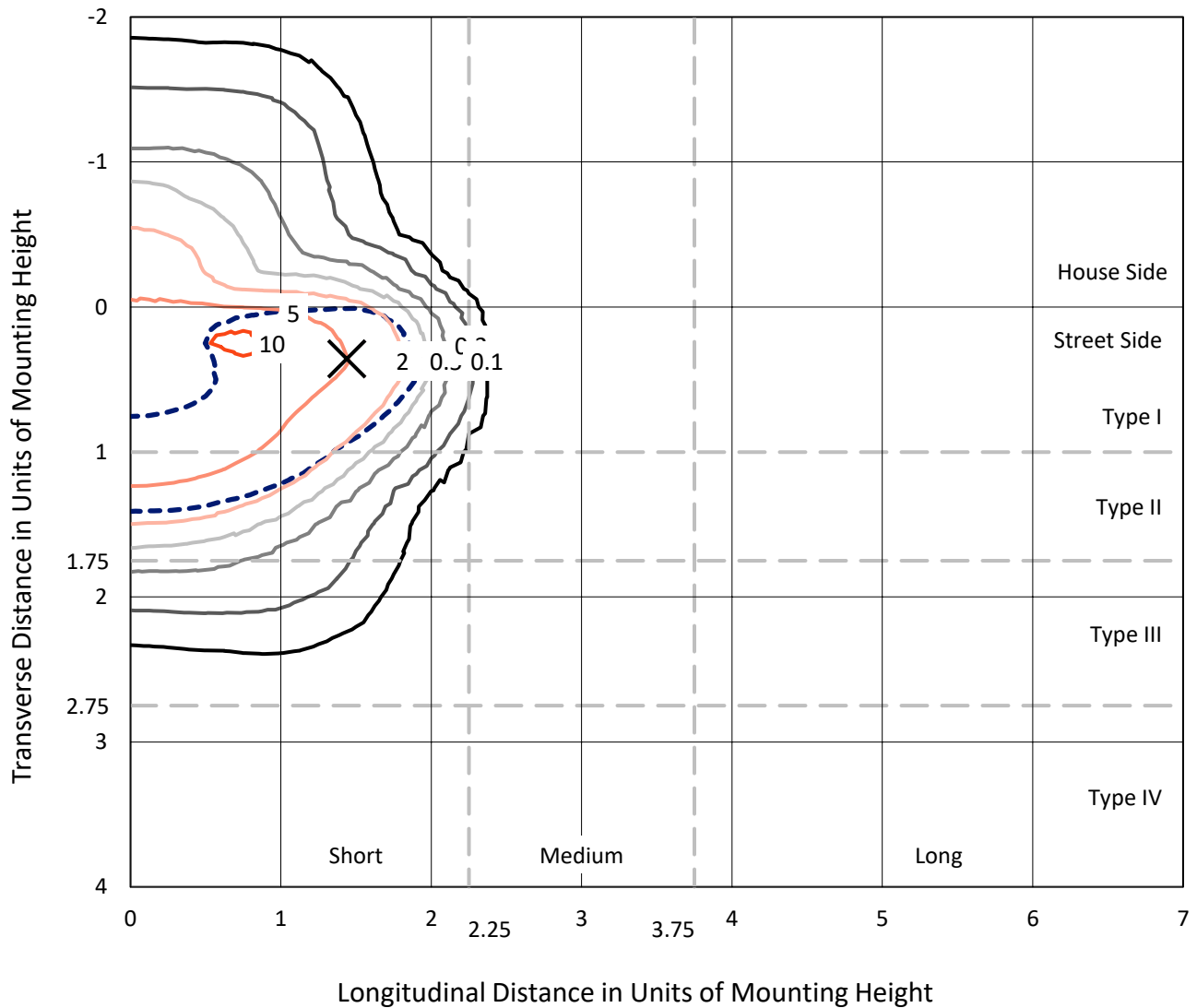
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

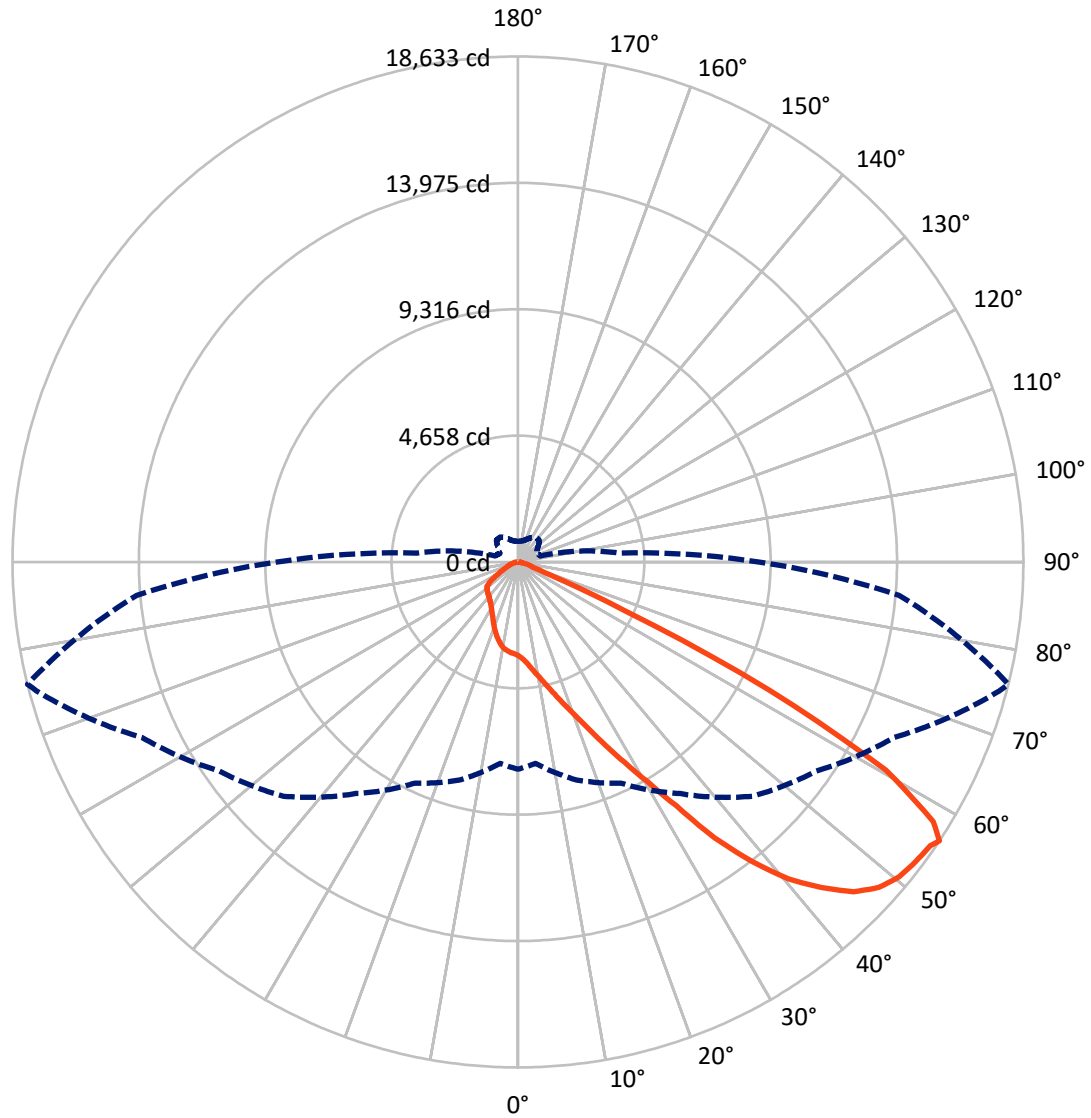
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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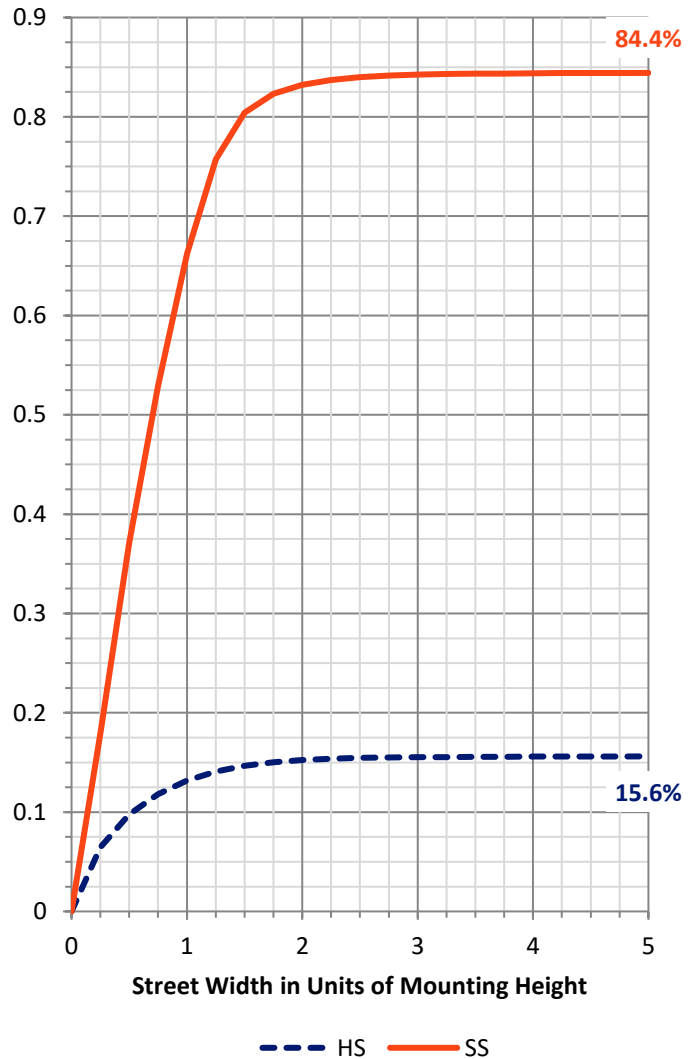
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3262.7	0.0	3262.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	17506.3	0.0	17506.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	20769.0	0.0	20769.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.2	1.7
10°-20°	1118.8	5.4
20°-30°	2028.7	9.8
30°-40°	3498.5	16.8
40°-50°	5683.5	27.4
50°-60°	5990.6	28.8
60°-70°	1830.4	8.8
70°-80°	234.6	1.1
80°-90°	35.7	0.2
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°	20769.0	100.0
0°-180°	20769.0	100.0

**Coefficient of Utilization**

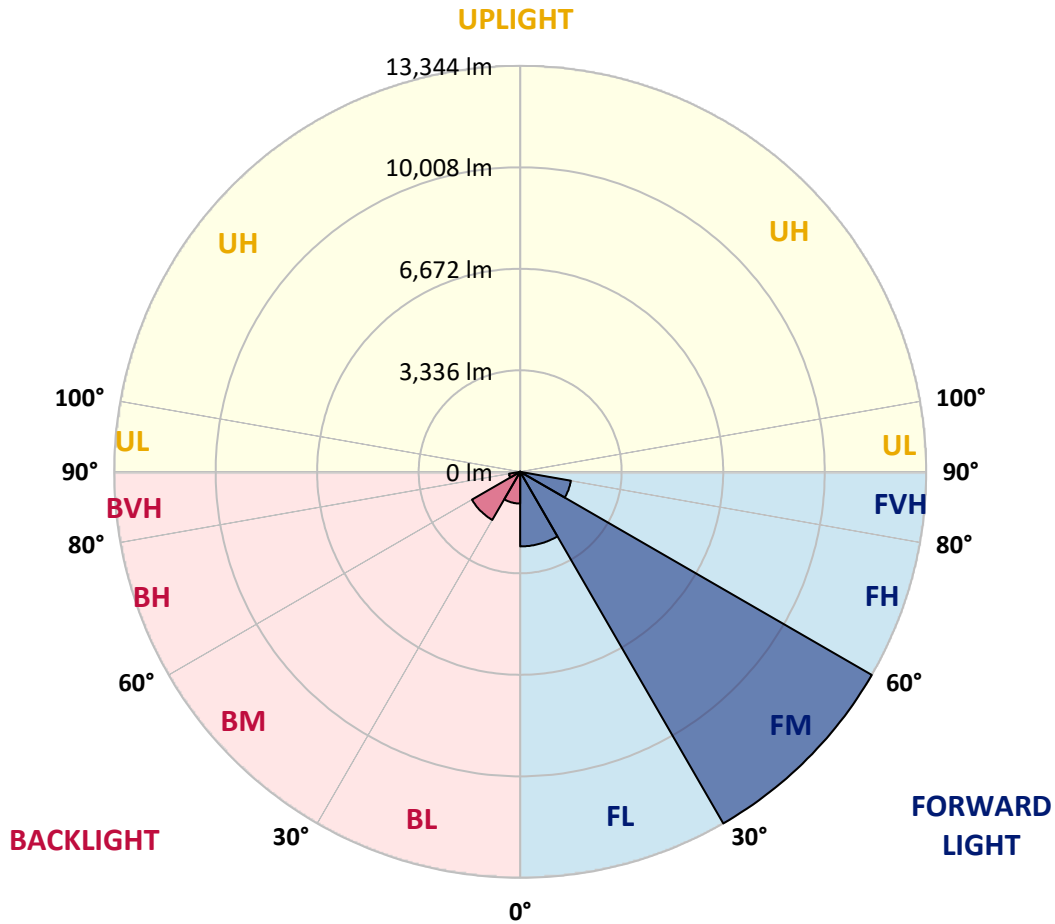


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.0	11.8			
FM (30°-60°)	13344.1	64.2			
FH (60°-80°)	1692.8	8.2			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1043.7	5.0	B3/2500		
BM (30°-60°)	1828.6	8.8	B2/2500		
BH (60°-80°)	372.2	1.8	B1/500		G1/500
BVH (80°-90°)	18.2	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0
2.5°	3981.5	3889.6	3893.5	3885.8	3874.3	3832.2	3705.9	3686.7	3602.5	3579.5	3503.0
5°	4460.1	4379.7	4425.6	4356.7	4291.6	4253.3	4046.6	3950.9	3816.9	3767.1	3659.9
7.5°	4758.7	4720.4	4705.1	4708.9	4647.7	4551.9	4460.1	4249.5	4069.6	4031.3	3805.4
10°	4904.2	4881.2	4904.2	4892.7	4919.5	4931.0	4770.2	4643.8	4379.7	4314.6	3962.4
12.5°	4938.6	4984.6	5003.7	5053.5	5118.6	5229.6	5218.1	5045.8	4693.6	4651.5	4203.6
15°	5022.8	5061.1	5042.0	5122.4	5244.9	5432.5	5532.0	5505.2	5126.2	5049.6	4483.0
17.5°	5099.4	5030.5	5095.6	5256.4	5378.9	5666.0	5907.2	6018.2	5597.1	5509.0	4739.5
20°	5202.8	5183.6	5172.1	5252.5	5470.8	5853.6	6332.1	6535.1	6125.4	6033.5	5107.1
22.5°	5516.7	5520.5	5512.9	5394.2	5551.2	5983.8	6703.5	7205.0	6757.1	6680.5	5524.4
25°	5930.2	5880.4	5842.1	5746.4	5727.3	6102.4	7078.7	8024.3	7515.1	7461.5	5976.1
27.5°	6366.6	6366.6	6251.8	6163.7	6041.2	6397.2	7423.2	8820.6	8430.1	8357.4	6370.4
30°	6841.3	6868.1	6852.8	6665.2	6588.6	6718.8	7775.4	9838.9	9479.1	9387.2	7021.3
32.5°	7541.9	7484.5	7549.6	7392.6	7166.7	7281.6	8330.6	10750.1	10842.0	10711.8	7875.0
35°	8468.4	8433.9	8391.8	8135.3	7867.3	7959.2	9115.4	11871.8	12553.3	12488.2	8736.4
37.5°	9299.1	9280.0	9245.5	9069.4	8759.3	8870.4	10007.4	13039.5	14222.4	14008.1	9953.8
40°	10172.0	10275.4	10164.4	10007.4	9724.1	9969.1	11056.4	13732.4	15627.5	15367.1	10884.1
42.5°	11355.0	11274.6	11324.4	11037.2	10884.1	11152.1	12109.2	14425.4	16718.6	16408.5	11871.8
45°	12614.5	12618.4	12484.4	12392.5	11994.3	12285.3	12756.2	14808.2	17587.6	17346.4	12618.4
47.5°	13422.3	13418.5	13564.0	13709.4	13299.8	13012.7	13196.4	15171.9	18035.5	17924.5	12890.2
50°	13296.0	13334.3	13521.9	14065.5	14279.9	13893.2	13609.9	15064.7	18238.4	18226.9	13123.7
52.5°	11565.5	11691.9	12005.8	12790.6	13870.2	14348.8	14042.5	15263.8	18338.0	18357.1	13472.1
55°	8805.3	8874.2	9471.4	10424.7	11619.1	13257.7	13870.2	15420.7	18414.5	18449.0	13893.2
56°	7637.6	7453.9	8315.3	8992.9	10420.9	12212.5	13433.8	15298.2	18368.6	18632.7	14103.8
57.5°	5765.5	5643.0	6339.8	7185.9	8560.3	10451.5	12078.6	14720.1	18058.5	18054.7	13801.3
60°	3506.8	3384.3	3920.3	4418.0	5187.5	6435.5	8162.1	11722.5	15267.6	15589.2	11175.1
62.5°	2086.5	2163.0	2691.4	2993.8	3242.6	3372.8	4222.7	6967.7	10187.3	10417.0	6933.2
65°	1389.7	1416.5	1814.7	2312.3	2423.4	1929.5	1718.9	2821.5	4418.0	4276.3	2859.8
67.5°	857.6	918.8	1217.4	1738.1	1925.7	1408.8	815.4	1052.8	1217.4	1217.4	826.9
70°	520.7	551.3	811.6	1183.0	1320.8	907.3	593.4	593.4	585.7	574.3	493.9
72.5°	248.8	268.0	413.5	608.7	620.2	478.5	459.4	501.5	490.0	486.2	409.6
75°	107.2	114.9	145.5	191.4	218.2	202.9	279.5	359.9	371.4	359.9	294.8
77.5°	34.5	38.3	53.6	68.9	72.7	88.1	118.7	149.3	172.3	160.8	145.5
80°	3.8	7.7	15.3	34.5	53.6	68.9	88.1	99.5	111.0	111.0	103.4
82.5°	3.8	3.8	15.3	30.6	49.8	65.1	84.2	95.7	111.0	114.9	107.2
85°	0.0	3.8	11.5	26.8	42.1	42.1	38.3	38.3	26.8	26.8	26.8
87.5°	0.0	0.0	3.8	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0
2.5°	3487.7	3480.0	3376.6	3311.6	3277.1	3208.2	3166.1	3135.4	3112.5	3085.7	3089.5
5°	3533.6	3506.8	3334.5	3215.8	3074.2	2997.6	2932.5	2878.9	2844.5	2836.8	2821.5
7.5°	3663.8	3522.1	3261.8	3047.4	2867.5	2790.9	2733.5	2699.0	2714.3	2679.9	2706.7
10°	3763.3	3552.7	3173.7	2863.6	2683.7	2626.3	2595.6	2622.4	2660.7	2645.4	2626.3
12.5°	3885.8	3583.4	3032.1	2687.5	2519.1	2477.0	2530.6	2580.3	2656.9	2687.5	2649.2
15°	4023.6	3617.8	2852.1	2484.6	2377.4	2411.9	2503.8	2591.8	2668.4	2706.7	2729.6
17.5°	4192.1	3606.3	2676.0	2323.8	2243.4	2343.0	2454.0	2534.4	2649.2	2706.7	2691.4
20°	4349.0	3568.1	2480.8	2163.0	2166.9	2258.7	2350.6	2480.8	2542.0	2618.6	2591.8
22.5°	4498.4	3499.1	2277.9	2052.0	2052.0	2193.7	2239.6	2323.8	2377.4	2415.7	2411.9
25°	4708.9	3369.0	2109.4	1944.8	1990.8	2082.6	2120.9	2147.7	2124.8	2155.4	2159.2
27.5°	4858.2	3235.0	1971.6	1849.1	1933.3	2002.2	1990.8	1975.4	1921.8	1879.7	1906.5
30°	5019.0	3078.0	1852.9	1784.0	1830.0	1891.2	1845.3	1799.3	1715.1	1646.2	1650.0
32.5°	5248.7	3005.3	1749.6	1707.5	1768.7	1776.4	1726.6	1657.7	1573.5	1508.4	1504.6
35°	5677.5	2959.3	1661.5	1657.7	1669.2	1673.0	1623.2	1539.0	1504.6	1451.0	1470.1
37.5°	6106.3	2936.4	1600.3	1585.0	1581.1	1585.0	1527.5	1447.1	1512.2	1508.4	1516.0
40°	6653.7	3039.7	1512.2	1493.1	1496.9	1496.9	1424.2	1401.2	1516.0	1527.5	1531.4
42.5°	7208.8	3169.9	1454.8	1393.5	1408.8	1408.8	1370.6	1343.8	1424.2	1347.6	1336.1
45°	7691.2	3361.3	1393.5	1294.0	1332.3	1351.4	1339.9	1294.0	1244.2	1114.1	1114.1
47.5°	7848.2	3529.8	1320.8	1198.3	1228.9	1313.1	1278.7	1183.0	1094.9	987.7	980.1
50°	8123.8	3713.5	1263.4	1087.3	1152.3	1255.7	1221.3	1125.5	1026.0	949.4	953.3
52.5°	8407.1	3924.1	1156.2	957.1	1037.5	1209.8	1209.8	1102.6	949.4	895.8	888.2
55°	8832.1	3916.4	964.8	784.8	926.5	1140.9	1160.0	987.7	849.9	807.8	807.8
56°	8893.3	3740.3	869.0	735.0	876.7	1121.7	1125.5	957.1	811.6	765.7	765.7
57.5°	8433.9	3376.6	761.8	673.8	815.4	1087.3	1091.1	930.3	781.0	715.9	708.3
60°	6489.1	2285.5	635.5	601.1	738.9	980.1	999.2	846.1	685.3	635.5	631.7
62.5°	3663.8	1267.2	558.9	543.6	635.5	834.6	892.0	738.9	581.9	555.1	562.8
65°	1673.0	696.8	470.9	440.3	513.0	643.2	719.7	608.7	478.5	447.9	447.9
67.5°	612.5	474.7	402.0	348.4	359.9	417.3	467.1	394.3	317.8	271.8	283.3
70°	436.4	398.2	352.2	302.4	279.5	271.8	268.0	222.0	157.0	122.5	130.2
72.5°	352.2	329.2	294.8	256.5	218.2	183.8	157.0	114.9	72.7	49.8	45.9
75°	252.7	241.2	214.4	183.8	153.1	130.2	107.2	72.7	38.3	19.1	19.1
77.5°	130.2	130.2	126.3	114.9	95.7	76.6	61.3	42.1	23.0	7.7	7.7
80°	99.5	107.2	111.0	99.5	88.1	68.9	49.8	30.6	15.3	3.8	3.8
82.5°	95.7	111.0	118.7	103.4	88.1	65.1	49.8	30.6	15.3	3.8	3.8
85°	23.0	23.0	34.5	38.3	49.8	53.6	42.1	26.8	11.5	3.8	3.8
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	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)