

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: P530449

Luminaire Tested: **GALN-SA5C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530449
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-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 16504 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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



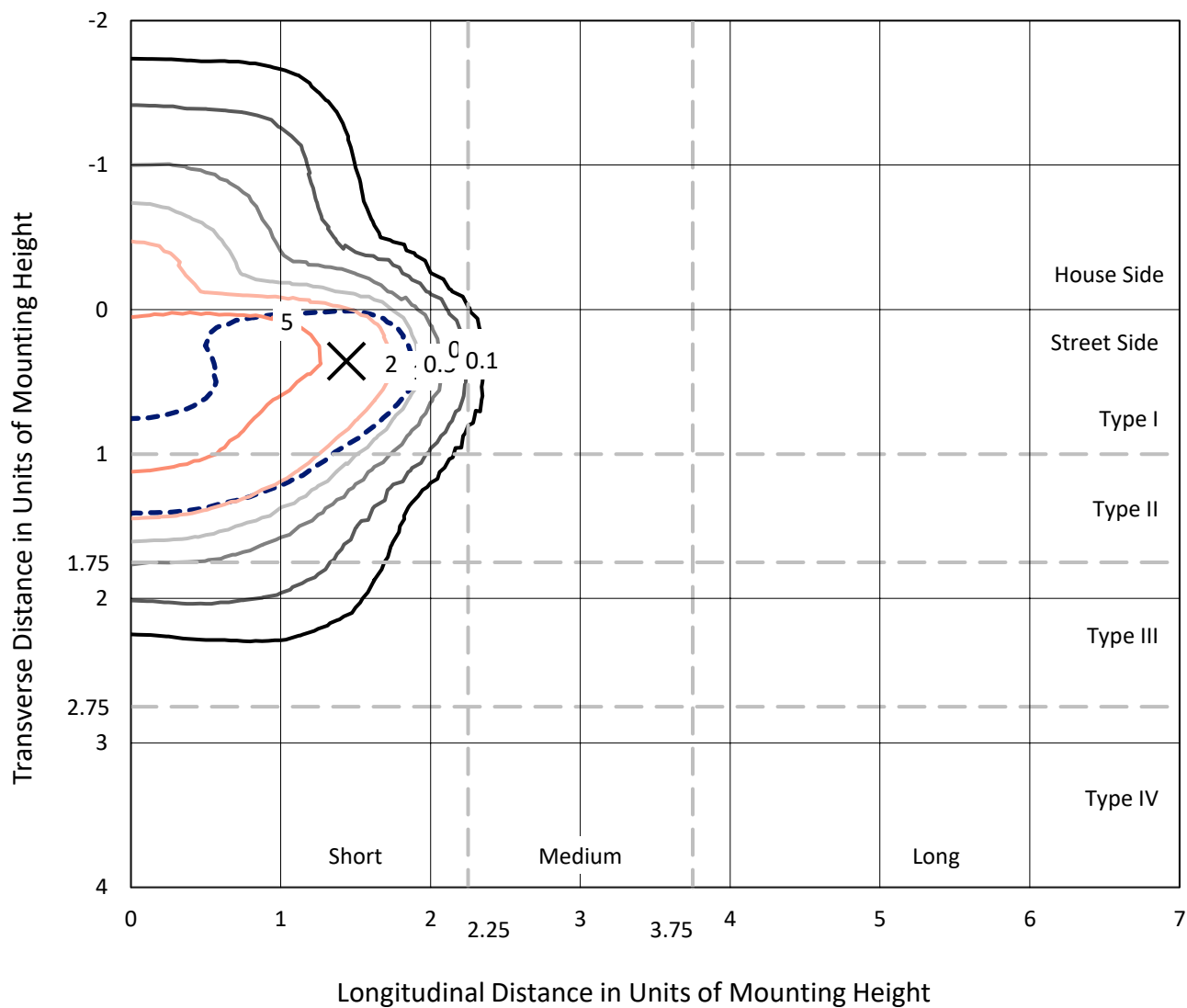
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

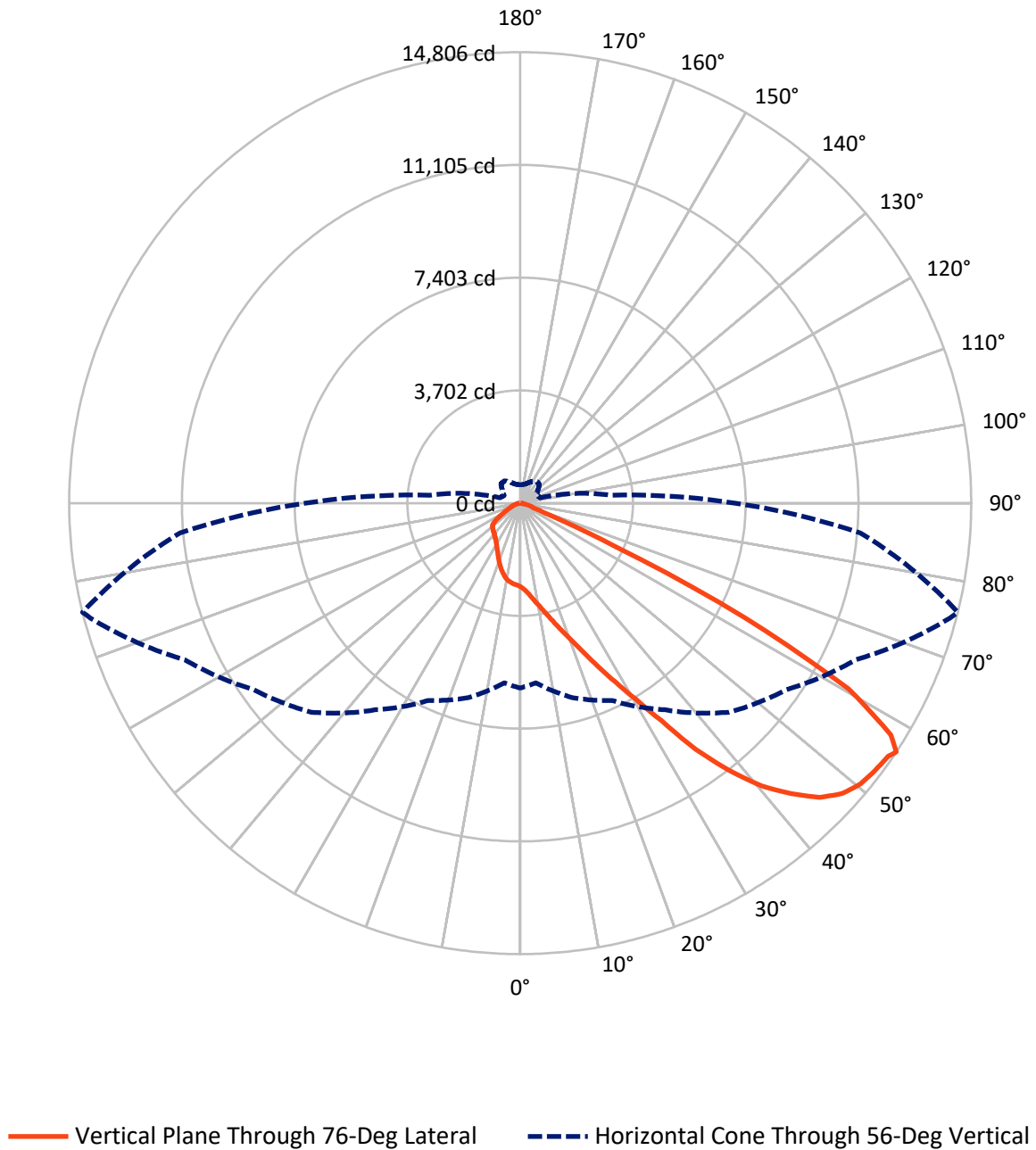
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2592.7	0.0	2592.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13911.3	0.0	13911.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	16504.0	0.0	16504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.7
10°-20°	889.0	5.4
20°-30°	1612.1	9.8
30°-40°	2780.1	16.8
40°-50°	4516.4	27.4
50°-60°	4760.4	28.8
60°-70°	1454.5	8.8
70°-80°	186.5	1.1
80°-90°	28.3	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°	16504.0	100.0
0°-180°	16504.0	100.0

Coefficient of Utilization



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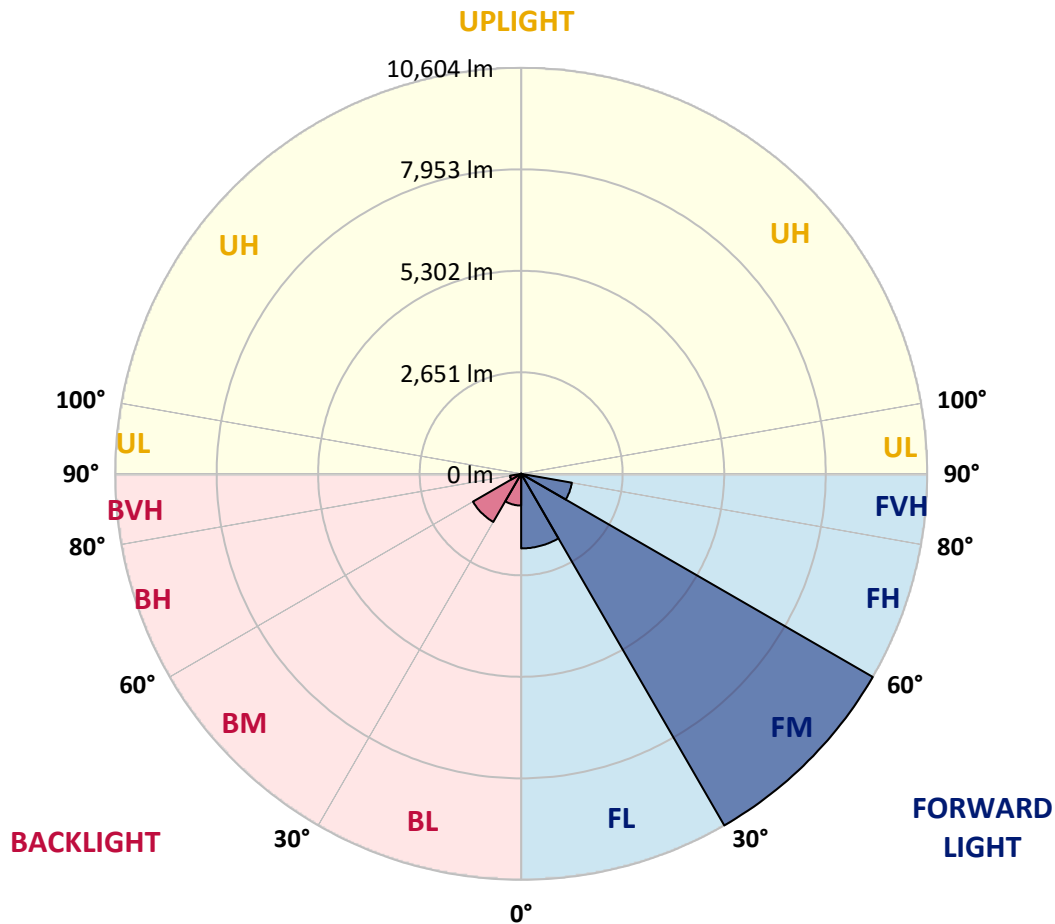
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1948.4	11.8			
FM	(30°-60°)	10603.8	64.2			
FH	(60°-80°)	1345.2	8.2			G1/1800
FVH	(80°-90°)	13.9	0.1			G1/100
BL	(0°-30°)	829.4	5.0	B2/1000		
BM	(30°-60°)	1453.0	8.8	B2/2500		
BH	(60°-80°)	295.8	1.8	B1/500		G1/500
BVH	(80°-90°)	14.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1
2.5°	3163.9	3090.9	3093.9	3087.8	3078.7	3045.3	2944.9	2929.6	2862.7	2844.5	2783.6
5°	3544.2	3480.3	3516.8	3462.0	3410.3	3379.9	3215.6	3139.6	3033.1	2993.5	2908.4
7.5°	3781.5	3751.0	3738.9	3741.9	3693.2	3617.2	3544.2	3376.9	3233.9	3203.4	3024.0
10°	3897.1	3878.8	3897.1	3887.9	3909.2	3918.4	3790.6	3690.2	3480.3	3428.6	3148.7
12.5°	3924.5	3961.0	3976.2	4015.7	4067.4	4155.7	4146.5	4009.6	3729.7	3696.3	3340.3
15°	3991.4	4021.8	4006.6	4070.5	4167.8	4316.9	4396.0	4374.7	4073.5	4012.7	3562.4
17.5°	4052.2	3997.5	4049.2	4177.0	4274.3	4502.5	4694.1	4782.4	4447.7	4377.7	3766.3
20°	4134.4	4119.2	4110.0	4173.9	4347.3	4651.5	5031.8	5193.1	4867.5	4794.5	4058.3
22.5°	4383.8	4386.9	4380.8	4286.5	4411.2	4755.0	5326.9	5725.4	5369.5	5308.7	4389.9
25°	4712.4	4672.8	4642.4	4566.4	4551.1	4849.3	5625.0	6376.5	5971.9	5929.3	4748.9
27.5°	5059.2	5059.2	4967.9	4898.0	4800.6	5083.5	5898.8	7009.3	6698.9	6641.1	5062.2
30°	5436.4	5457.7	5445.6	5296.5	5235.6	5339.1	6178.7	7818.5	7532.5	7459.5	5579.4
32.5°	5993.2	5947.5	5999.2	5874.5	5695.0	5786.3	6619.8	8542.5	8615.5	8512.1	6257.8
35°	6729.4	6702.0	6668.5	6464.7	6251.7	6324.8	7243.5	9433.9	9975.4	9923.7	6942.3
37.5°	7389.5	7374.3	7346.9	7207.0	6960.6	7048.8	7952.3	10361.8	11301.8	11131.4	7909.7
40°	8083.2	8165.3	8077.1	7952.3	7727.2	7921.9	8785.9	10912.4	12418.3	12211.4	8649.0
42.5°	9023.2	8959.3	8998.9	8770.7	8649.0	8862.0	9622.5	11463.0	13285.3	13038.9	9433.9
45°	10024.1	10027.1	9920.6	9847.6	9531.2	9762.5	10136.6	11767.3	13975.9	13784.3	10027.1
47.5°	10666.0	10662.9	10778.5	10894.2	10568.6	10340.5	10486.5	12056.3	14331.9	14243.6	10243.1
50°	10565.6	10596.0	10745.1	11177.1	11347.4	11040.2	10815.1	11971.1	14493.1	14484.0	10428.7
52.5°	9190.5	9290.9	9540.4	10164.0	11021.9	11402.2	11158.8	12129.3	14572.2	14587.4	10705.5
55°	6997.1	7051.8	7526.4	8283.9	9233.1	10535.2	11021.9	12254.0	14633.0	14660.4	11040.2
56°	6069.2	5923.2	6607.7	7146.2	8280.9	9704.6	10675.1	12156.7	14596.5	14806.4	11207.5
57.5°	4581.6	4484.2	5037.9	5710.2	6802.4	8305.2	9598.2	11697.3	14350.1	14347.1	10967.2
60°	2786.7	2689.3	3115.2	3510.7	4122.2	5114.0	6486.0	9315.2	12132.3	12387.9	8880.2
62.5°	1658.0	1718.8	2138.7	2379.0	2576.8	2680.2	3355.6	5536.8	8095.3	8277.9	5509.4
65°	1104.3	1125.6	1442.0	1837.5	1925.7	1533.3	1366.0	2242.1	3510.7	3398.1	2272.5
67.5°	681.5	730.1	967.4	1381.2	1530.2	1119.5	648.0	836.6	967.4	967.4	657.1
70°	413.7	438.1	644.9	940.0	1049.6	721.0	471.5	471.5	465.5	456.3	392.4
72.5°	197.7	213.0	328.6	483.7	492.8	380.3	365.1	398.5	389.4	386.4	325.5
75°	85.2	91.3	115.6	152.1	173.4	161.2	222.1	286.0	295.1	286.0	234.3
77.5°	27.4	30.4	42.6	54.8	57.8	70.0	94.3	118.6	136.9	127.8	115.6
80°	3.0	6.1	12.2	27.4	42.6	54.8	70.0	79.1	88.2	88.2	82.1
82.5°	3.0	3.0	12.2	24.3	39.5	51.7	66.9	76.1	88.2	91.3	85.2
85°	0.0	3.0	9.1	21.3	33.5	33.5	30.4	30.4	21.3	21.3	21.3
87.5°	0.0	0.0	3.0	3.0	3.0	6.1	6.1	6.1	6.1	6.1	6.1
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°	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1
2.5°	2771.5	2765.4	2683.2	2631.5	2604.1	2549.4	2515.9	2491.6	2473.3	2452.0	2455.1
5°	2808.0	2786.7	2649.8	2555.5	2442.9	2382.1	2330.3	2287.7	2260.4	2254.3	2242.1
7.5°	2911.4	2798.8	2592.0	2421.6	2278.6	2217.8	2172.1	2144.8	2156.9	2129.5	2150.8
10°	2990.5	2823.2	2522.0	2275.6	2132.6	2087.0	2062.6	2083.9	2114.3	2102.2	2087.0
12.5°	3087.8	2847.5	2409.4	2135.6	2001.8	1968.3	2010.9	2050.4	2111.3	2135.6	2105.2
15°	3197.4	2874.9	2266.4	1974.4	1889.2	1916.6	1989.6	2059.6	2120.4	2150.8	2169.1
17.5°	3331.2	2865.8	2126.5	1846.6	1782.7	1861.8	1950.1	2013.9	2105.2	2150.8	2138.7
20°	3456.0	2835.3	1971.4	1718.8	1721.9	1794.9	1867.9	1971.4	2020.0	2080.9	2059.6
22.5°	3574.6	2780.6	1810.1	1630.6	1630.6	1743.2	1779.7	1846.6	1889.2	1919.6	1916.6
25°	3741.9	2677.1	1676.3	1545.4	1581.9	1655.0	1685.4	1706.7	1688.4	1712.8	1715.8
27.5°	3860.6	2570.7	1566.7	1469.4	1536.3	1591.1	1581.9	1569.8	1527.2	1493.7	1515.0
30°	3988.3	2445.9	1472.4	1417.7	1454.2	1502.9	1466.3	1429.8	1362.9	1308.2	1311.2
32.5°	4170.9	2388.1	1390.3	1356.8	1405.5	1411.6	1372.0	1317.3	1250.3	1198.6	1195.6
35°	4511.6	2351.6	1320.3	1317.3	1326.4	1329.4	1289.9	1223.0	1195.6	1153.0	1168.2
37.5°	4852.3	2333.4	1271.6	1259.5	1256.4	1259.5	1213.8	1150.0	1201.7	1198.6	1204.7
40°	5287.4	2415.5	1201.7	1186.5	1189.5	1189.5	1131.7	1113.4	1204.7	1213.8	1216.9
42.5°	5728.5	2518.9	1156.0	1107.4	1119.5	1119.5	1089.1	1067.8	1131.7	1070.9	1061.7
45°	6111.8	2671.1	1107.4	1028.3	1058.7	1073.9	1064.8	1028.3	988.7	885.3	885.3
47.5°	6236.5	2804.9	1049.6	952.2	976.5	1043.5	1016.1	940.0	870.1	784.9	778.8
50°	6455.6	2950.9	1003.9	864.0	915.7	997.8	970.5	894.4	815.3	754.5	757.5
52.5°	6680.7	3118.3	918.7	760.6	824.4	961.3	961.3	876.2	754.5	711.9	705.8
55°	7018.4	3112.2	766.6	623.7	736.2	906.6	921.8	784.9	675.4	641.9	641.9
56°	7067.1	2972.2	690.6	584.1	696.7	891.4	894.4	760.6	644.9	608.4	608.4
57.5°	6702.0	2683.2	605.4	535.4	648.0	864.0	867.0	739.3	620.6	568.9	562.8
60°	5156.5	1816.2	505.0	477.6	587.1	778.8	794.0	672.3	544.6	505.0	502.0
62.5°	2911.4	1007.0	444.2	432.0	505.0	663.2	708.8	587.1	462.4	441.1	447.2
65°	1329.4	553.7	374.2	349.9	407.7	511.1	571.9	483.7	380.3	355.9	355.9
67.5°	486.8	377.2	319.4	276.8	286.0	331.6	371.1	313.3	252.5	216.0	225.1
70°	346.8	316.4	279.9	240.3	222.1	216.0	213.0	176.4	124.7	97.4	103.4
72.5°	279.9	261.6	234.3	203.8	173.4	146.0	124.7	91.3	57.8	39.5	36.5
75°	200.8	191.7	170.4	146.0	121.7	103.4	85.2	57.8	30.4	15.2	15.2
77.5°	103.4	103.4	100.4	91.3	76.1	60.8	48.7	33.5	18.3	6.1	6.1
80°	79.1	85.2	88.2	79.1	70.0	54.8	39.5	24.3	12.2	3.0	3.0
82.5°	76.1	88.2	94.3	82.1	70.0	51.7	39.5	24.3	12.2	3.0	3.0
85°	18.3	18.3	27.4	30.4	39.5	42.6	33.5	21.3	9.1	3.0	3.0
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0	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)