

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: P648418

Luminaire Tested: **GALN-SA5B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648418  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20133.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

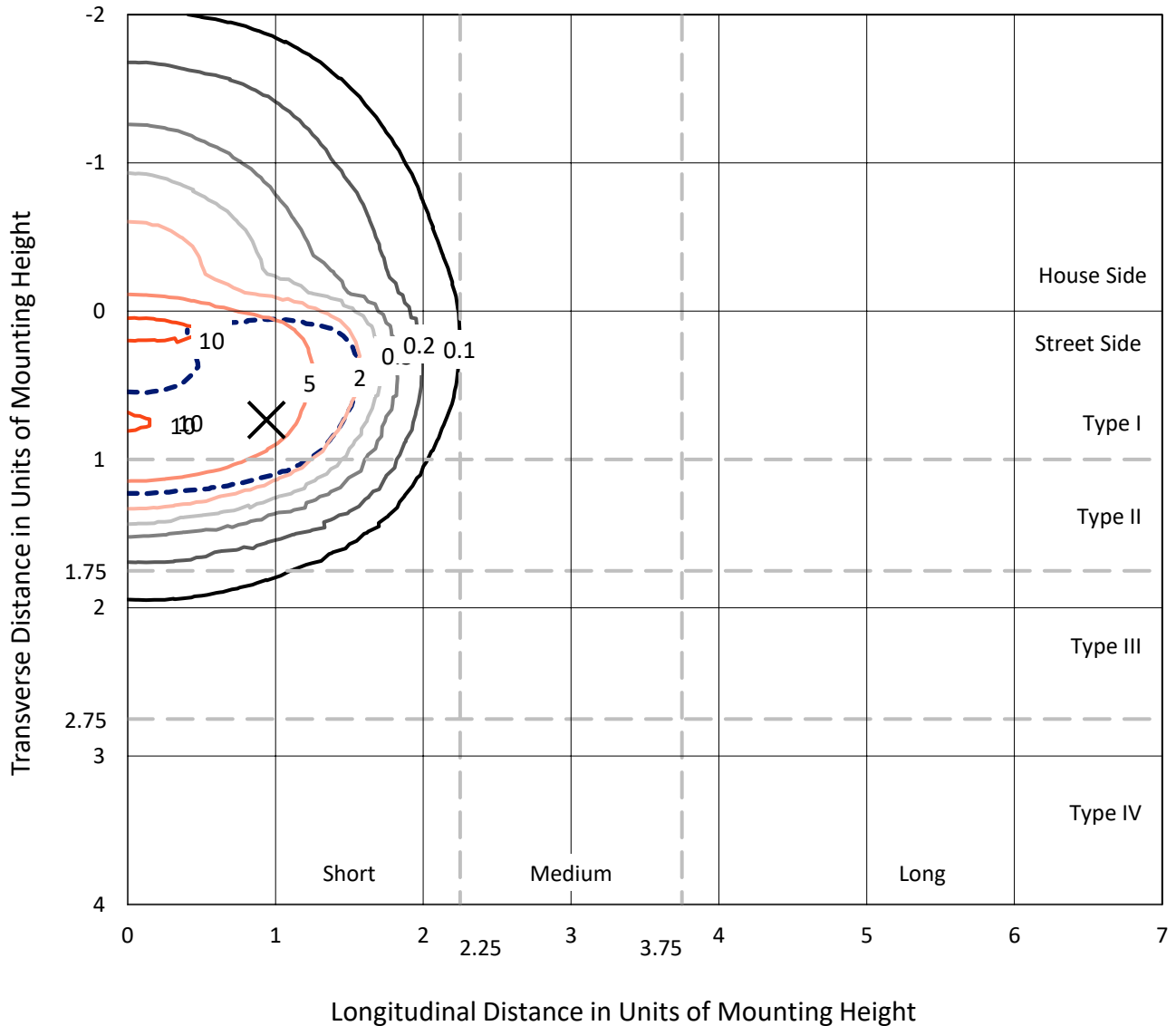
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

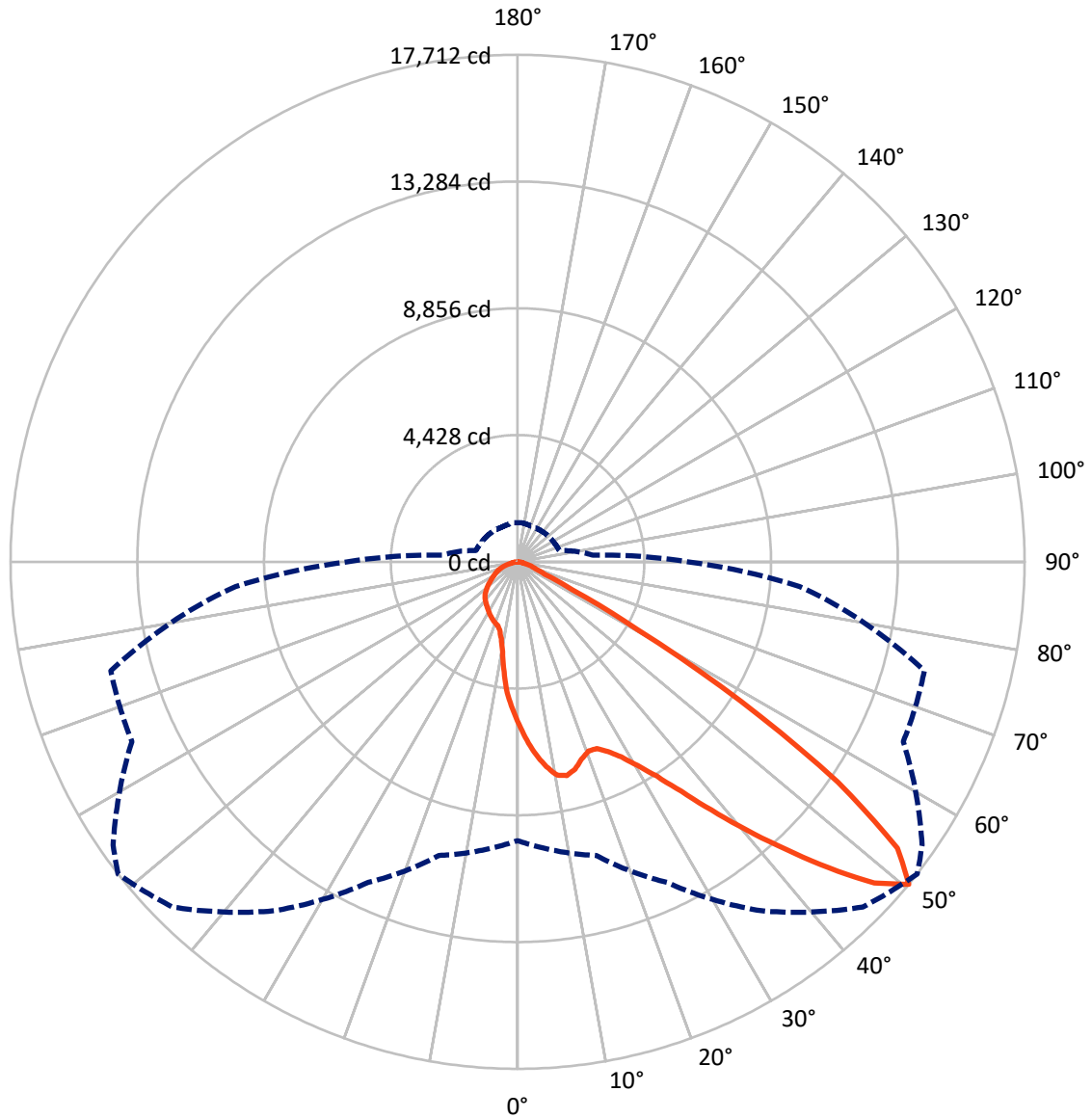
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3784.6	0.0	3784.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16348.7	0.0	16348.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20133.3	0.0	20133.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.1	2.6
10°-20°	1402.0	7.0
20°-30°	2361.6	11.7
30°-40°	3963.0	19.7
40°-50°	6062.4	30.1
50°-60°	4420.0	22.0
60°-70°	983.7	4.9
70°-80°	354.8	1.8
80°-90°	62.8	0.3
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°	20133.3	100.0
0°-180°	20133.3	100.0

**Coefficient of Utilization**



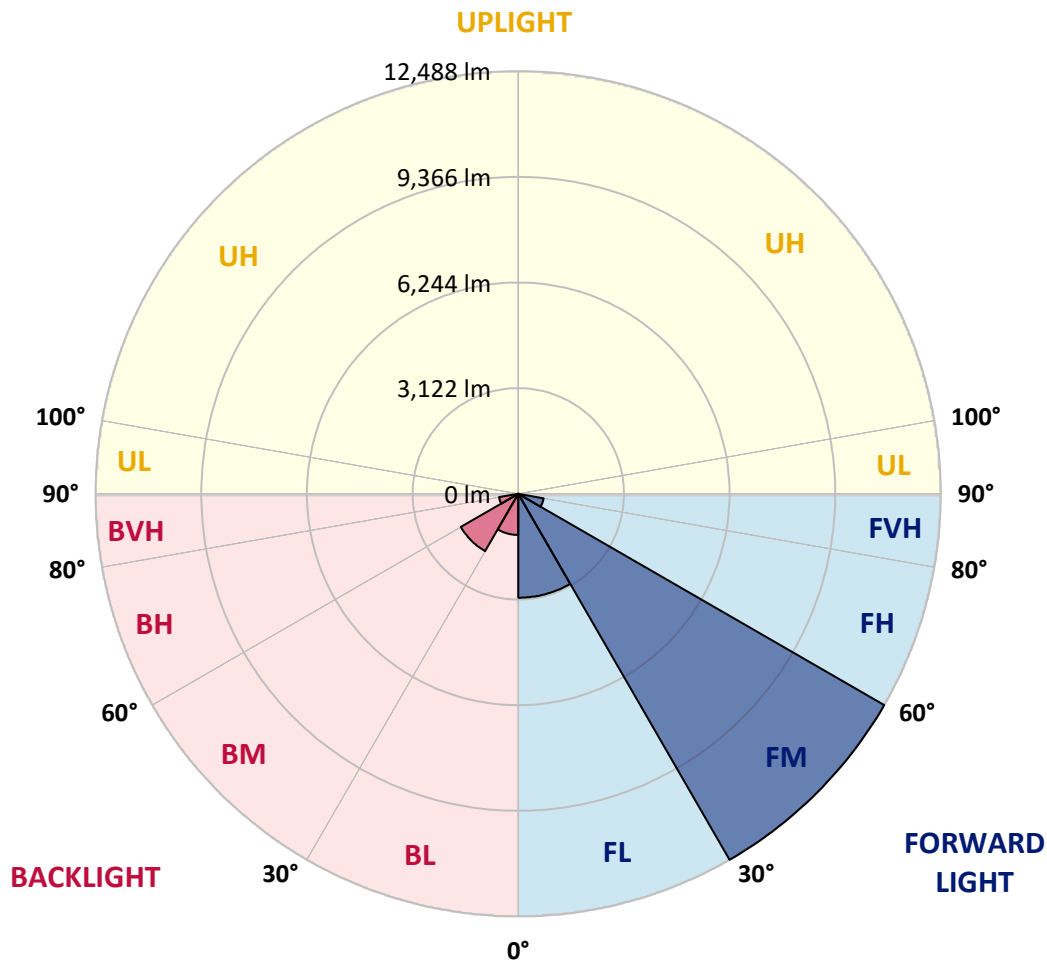
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3071.0	15.3			
FM (30°-60°)	12487.7	62.0			
FH (60°-80°)	761.9	3.8			G1/1800
FVH (80°-90°)	28.1	0.1			G1/100
BL (0°-30°)	1215.7	6.0	B3/2500		
BM (30°-60°)	1957.6	9.7	B2/2500		
BH (60°-80°)	576.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.7	0.2			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°	52°	55°	65°	75°	85°
0°	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3
2.5°	6682.2	6553.6	6568.1	6476.0	6376.4	6347.3	6245.4	6148.4	6075.6	5920.3	5777.1
5°	7303.4	7264.5	7206.3	7133.4	7058.3	6873.9	6769.5	6648.2	6381.3	6141.1	5903.4
7.5°	7393.1	7385.8	7417.4	7417.4	7444.1	7373.7	7225.7	7140.7	6856.9	6466.2	6024.6
10°	6762.2	6784.1	6936.9	7135.9	7412.5	7604.2	7579.9	7558.1	7247.5	6713.8	6167.8
12.5°	6260.0	6211.5	6301.3	6471.1	6886.0	7349.4	7662.4	7664.9	7584.8	7109.2	6272.1
15°	5976.1	6010.1	6034.3	6114.4	6427.4	6963.6	7514.5	7677.0	8028.8	7388.2	6437.1
17.5°	6158.1	6044.1	6039.2	6058.6	6218.7	6621.5	7240.2	7519.2	8271.5	7747.3	6640.9
20°	6395.9	6393.4	6325.5	6301.3	6298.8	6657.9	7060.7	7439.2	8400.0	8213.2	6847.2
22.5°	6813.2	6813.2	6701.6	6648.2	6534.1	6827.8	7085.0	7342.1	8613.5	8533.4	6946.6
25°	7512.0	7397.9	7206.3	7075.3	7009.7	7114.1	7342.1	7572.6	8800.4	8873.2	7152.9
27.5°	8157.4	7977.8	7883.2	7657.6	7570.2	7509.6	7718.2	7951.1	9018.8	9402.1	7264.5
30°	8890.2	8858.6	8688.8	8397.6	8181.6	8070.1	8261.7	8492.3	9419.1	9943.2	7521.7
32.5°	10200.4	9914.1	9683.6	9326.9	8975.1	8737.3	8926.5	9079.4	10083.9	10508.6	7803.1
35°	11614.9	11522.8	11124.8	10481.9	9943.2	9729.6	9841.3	9955.3	10857.9	11372.3	8276.3
37.5°	13005.2	12879.1	12551.5	12010.4	11355.3	10921.0	11001.1	11134.5	11726.5	12536.9	8853.8
40°	14004.9	13849.6	13684.6	13604.5	12954.3	12359.8	12313.8	12347.7	12900.9	13628.8	9494.3
42.5°	14077.7	14269.4	14320.4	14643.0	14490.2	14002.5	13718.6	13725.9	14021.9	14708.6	10142.1
45°	13924.9	13747.7	14123.8	15004.6	15509.3	15737.3	15259.3	15198.7	14715.9	15334.5	10464.9
47.5°	12321.1	12369.5	13005.2	14398.0	15856.2	16875.3	16763.6	16562.3	15087.1	15312.7	10413.9
50°	9739.3	10033.0	10622.6	12357.4	14885.7	17054.8	17712.4	17246.5	14866.3	14711.0	9894.7
52.5°	6485.7	6607.0	6995.2	9234.7	11969.2	15244.8	16620.5	16727.3	14662.5	13922.4	9237.1
55°	2887.4	2877.7	3423.6	4823.6	7509.6	11600.4	13580.3	14230.6	13878.8	13119.3	8596.6
57.5°	1222.9	1264.2	1487.4	2084.3	3692.9	7000.0	9200.7	9770.9	10673.5	10773.0	6594.8
60°	827.4	832.3	892.9	1043.3	1545.6	3287.7	4826.0	5510.3	6155.6	6112.0	3498.8
62.5°	650.3	667.3	713.3	774.0	917.1	1492.2	2159.4	2540.4	2581.6	2171.6	1327.2
65°	555.6	558.0	604.2	655.1	718.2	868.7	1040.9	1060.3	1072.5	1033.6	975.4
67.5°	458.6	463.5	499.9	558.0	616.3	664.8	713.3	737.6	793.4	902.6	888.1
70°	363.9	371.2	402.8	451.3	504.6	533.8	594.5	616.3	667.3	752.1	786.1
72.5°	276.6	279.1	305.7	339.7	388.2	417.3	468.3	492.6	526.5	599.3	630.9
75°	199.0	206.2	225.7	242.7	249.9	269.4	317.8	344.5	393.1	424.6	427.0
77.5°	104.3	109.2	114.0	114.0	138.3	174.7	206.2	220.8	254.8	279.1	266.9
80°	41.3	43.7	55.8	75.2	97.1	126.1	148.0	155.3	184.4	199.0	206.2
82.5°	24.3	26.7	36.4	53.4	70.4	89.8	106.7	114.0	133.4	150.4	155.3
85°	12.1	14.6	21.8	34.0	46.1	55.8	53.4	51.0	51.0	48.5	51.0
87.5°	4.9	4.9	7.3	7.3	7.3	9.7	12.1	12.1	12.1	14.6	14.6
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°	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3	5675.3
2.5°	5682.5	5585.5	5495.7	5330.7	5151.1	5100.2	4891.6	4816.3	4762.9	4699.9	4680.5
5°	5711.7	5583.0	5294.3	4961.9	4697.5	4357.7	4134.5	3894.3	3719.6	3676.0	3663.8
7.5°	5772.3	5551.5	5054.1	4551.8	4010.8	3549.7	3197.9	3008.7	2841.3	2831.6	2814.6
10°	5840.2	5456.9	4792.0	4003.5	3311.9	2885.0	2673.9	2591.3	2550.1	2540.4	2535.5
12.5°	5896.1	5437.5	4498.5	3469.7	2817.0	2559.8	2496.8	2489.5	2506.4	2511.2	2520.9
15°	5920.3	5359.8	4144.2	2991.7	2508.8	2414.2	2440.9	2470.1	2482.2	2513.7	2489.5
17.5°	5966.4	5260.4	3707.5	2613.2	2336.6	2353.5	2399.7	2433.6	2453.1	2474.9	2443.4
20°	5990.7	5170.5	3297.4	2387.5	2275.9	2307.4	2370.5	2397.2	2421.5	2431.2	2394.8
22.5°	5968.8	4986.1	2935.9	2205.6	2217.7	2259.0	2314.7	2343.8	2329.3	2290.5	2268.7
25°	5910.6	4726.5	2559.8	2089.1	2135.2	2208.0	2251.7	2229.8	2203.1	2181.3	2174.0
27.5°	5908.2	4408.7	2288.1	1982.3	2064.8	2164.3	2149.7	2130.3	2142.4	2125.5	2106.0
30°	5920.3	4100.6	2064.8	1921.6	2013.9	2062.4	2079.4	2060.0	2074.6	2043.0	2052.7
32.5°	5857.2	3799.7	1919.2	1851.3	1953.2	1950.8	2006.6	2021.2	1987.2	1921.6	1931.3
35°	5883.9	3557.0	1795.5	1819.8	1885.3	1885.3	1928.9	1911.9	1822.2	1783.4	1793.1
37.5°	6068.3	3319.2	1734.8	1776.1	1819.8	1839.2	1824.6	1751.8	1730.0	1730.0	1734.8
40°	6243.0	3115.4	1698.5	1766.4	1759.1	1771.2	1664.5	1671.8	1671.8	1674.2	1662.1
42.5°	6398.3	2977.1	1669.4	1708.1	1720.3	1657.2	1591.7	1584.4	1601.4	1599.0	1589.3
45°	6454.1	2863.1	1628.1	1642.7	1652.4	1548.0	1516.4	1502.0	1521.3	1528.6	1538.3
47.5°	6240.6	2768.5	1582.0	1552.8	1533.4	1465.5	1424.3	1397.6	1421.8	1463.1	1472.8
50°	5966.4	2644.7	1509.2	1453.4	1412.1	1383.0	1353.9	1327.2	1344.2	1373.3	1366.0
52.5°	5561.2	2450.6	1417.0	1358.7	1288.4	1295.7	1269.0	1254.4	1264.2	1264.2	1256.9
55°	4983.7	2013.9	1261.7	1220.5	1162.2	1181.6	1186.5	1167.1	1147.6	1164.6	1150.1
57.5°	3401.7	1421.8	1125.8	1125.8	1067.6	1094.3	1091.9	1045.8	999.7	1004.5	994.8
60°	1967.8	1133.1	1038.5	1028.8	968.1	989.9	994.8	963.2	892.9	897.8	888.1
62.5°	1118.5	968.1	907.4	892.9	880.8	900.2	900.2	859.0	798.3	803.1	793.4
65°	951.1	897.8	810.4	808.0	803.1	808.0	788.6	744.9	691.5	669.7	672.1
67.5°	863.8	829.8	744.9	723.0	708.5	706.0	669.7	628.4	604.2	584.7	582.3
70°	757.0	730.3	667.3	638.1	623.6	589.6	553.2	526.5	492.6	482.9	492.6
72.5°	599.3	596.9	572.6	541.1	509.5	482.9	451.3	414.9	383.4	376.1	359.1
75°	414.9	419.8	424.6	419.8	393.1	359.1	322.7	293.6	254.8	232.9	228.1
77.5°	271.8	279.1	286.3	276.6	259.6	228.1	203.8	167.4	138.3	121.3	118.9
80°	199.0	208.7	213.5	206.2	186.8	162.6	135.9	106.7	85.0	70.4	70.4
82.5°	152.8	162.6	167.4	155.3	135.9	116.4	97.1	75.2	58.3	46.1	43.7
85°	53.4	51.0	60.7	63.1	75.2	70.4	58.3	43.7	34.0	24.3	21.8
87.5°	14.6	14.6	17.0	17.0	14.6	12.1	12.1	12.1	9.7	7.3	7.3
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)