

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: P646932

Luminaire Tested: **GALN-SA5C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20564.7 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

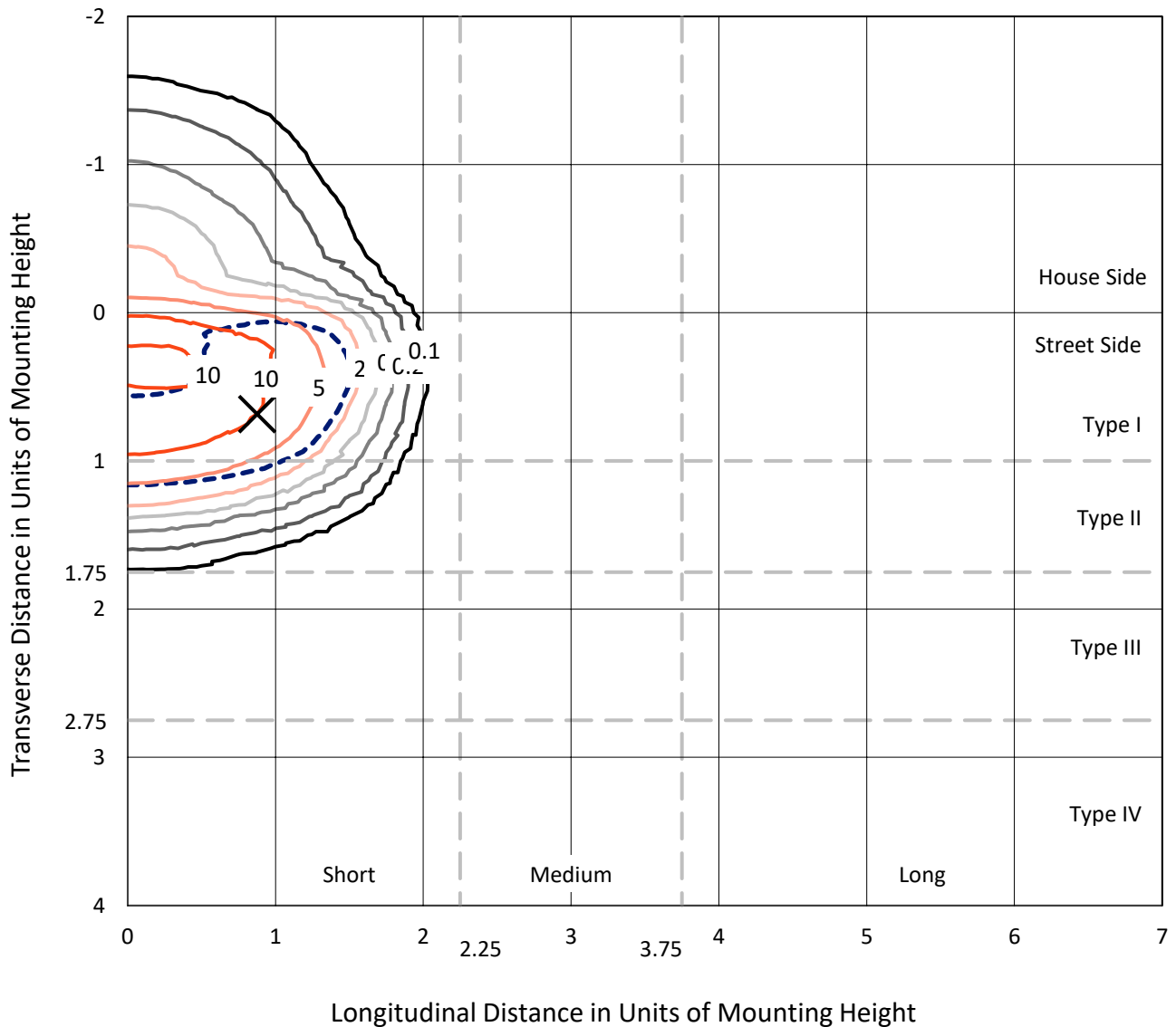
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

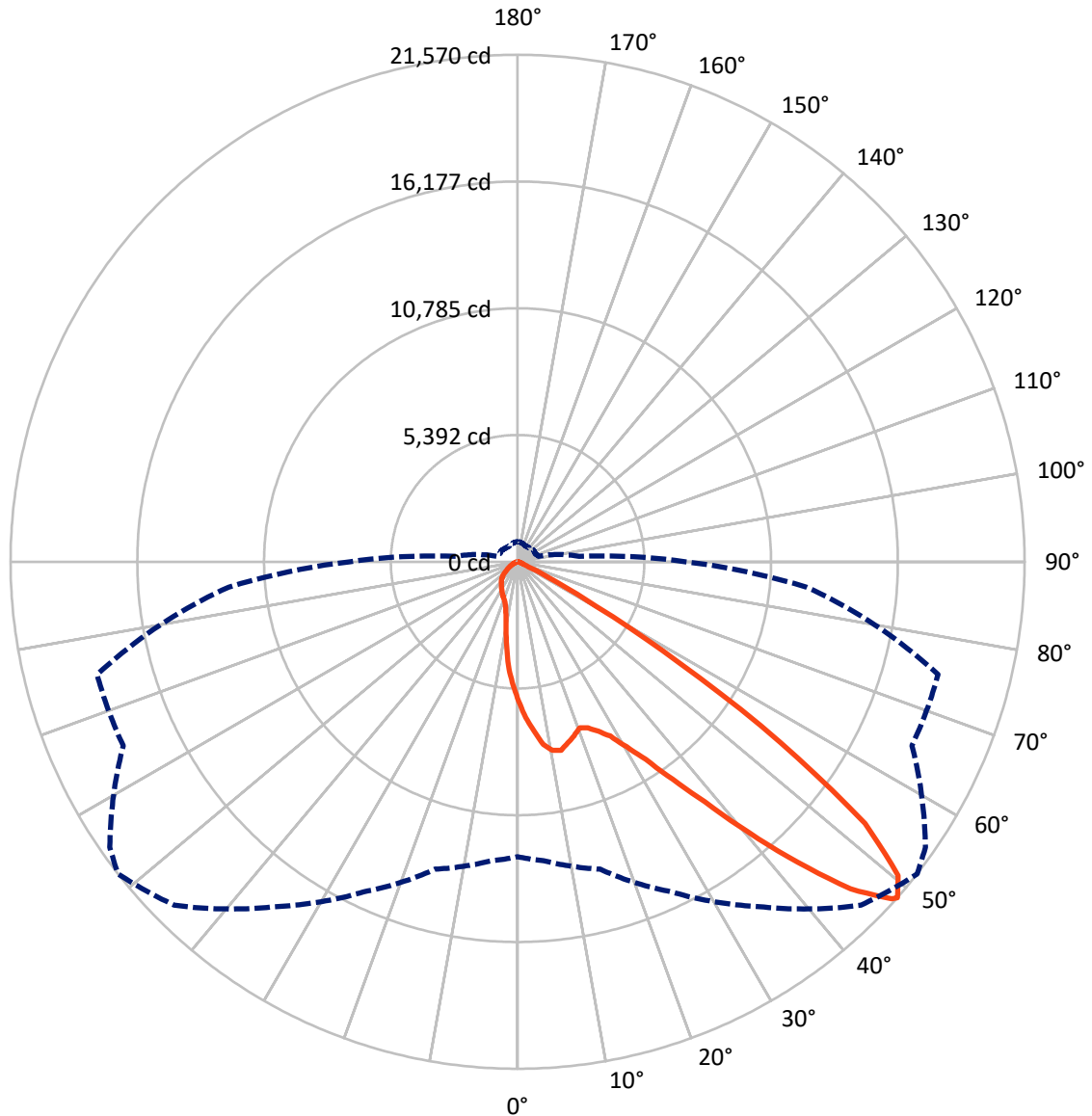
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2503.9	0.0	2503.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18060.8	0.0	18060.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	20564.7	0.0	20564.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.6	2.6
10°-20°	1420.5	6.9
20°-30°	2425.4	11.8
30°-40°	4466.4	21.7
40°-50°	6936.3	33.7
50°-60°	4174.5	20.3
60°-70°	482.8	2.3
70°-80°	93.5	0.5
80°-90°	21.6	0.1
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°	20564.7	100.0
0°-180°	20564.7	100.0



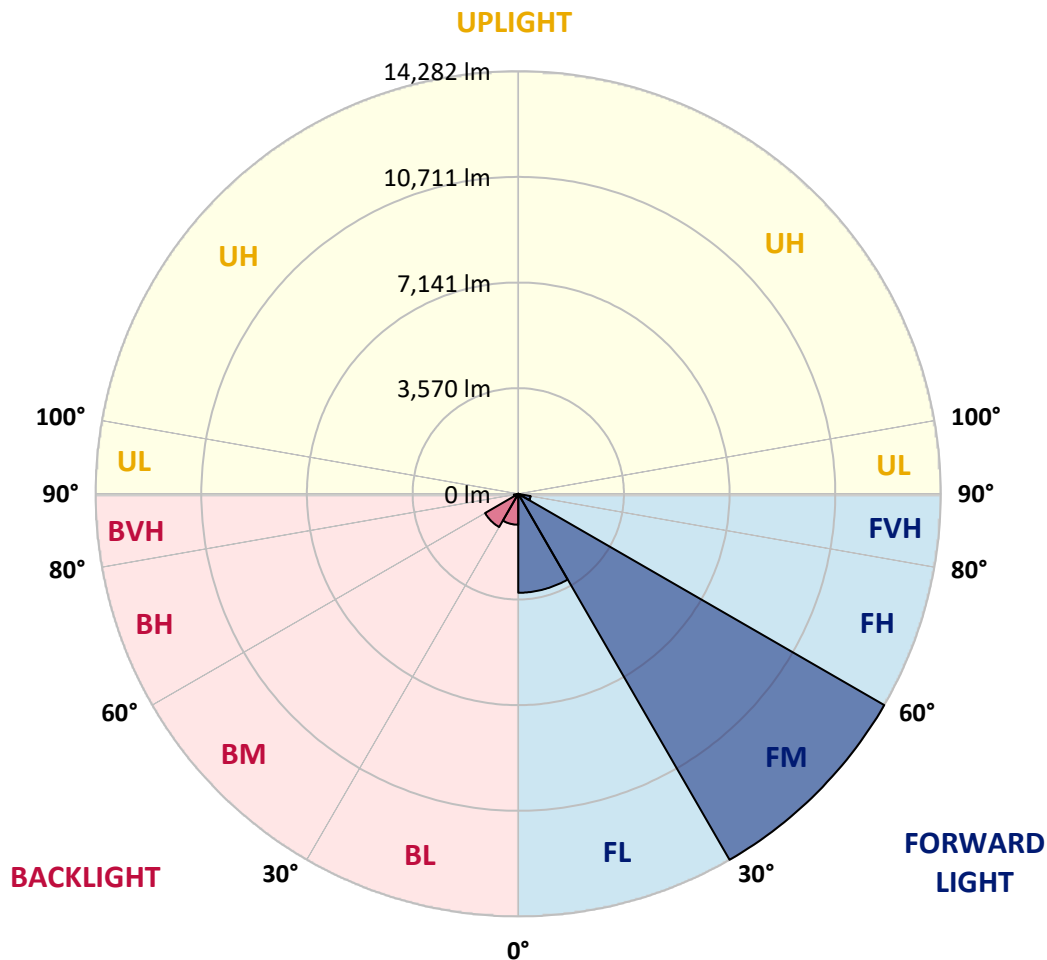
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3343.6	16.3			
FM (30°-60°)	14281.8	69.4			
FH (60°-80°)	425.2	2.1			G0/660
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	1046.0	5.1	B3/2500		
BM (30°-60°)	1295.5	6.3	B2/2500		
BH (60°-80°)	151.1	0.7	B1/500		G1/500
BVH (80°-90°)	11.3	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°	52°	55°	65°	75°	85°
0°	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7
2.5°	7197.9	7033.0	7047.9	6940.0	6877.1	6775.1	6637.3	6610.2	6460.4	6256.5	6049.7
5°	7845.3	7806.4	7857.4	7701.5	7707.5	7539.6	7215.8	7221.8	6877.1	6544.3	6223.5
7.5°	7887.3	7797.4	7848.4	7986.3	8067.2	8037.3	7854.4	7695.5	7368.7	6880.1	6412.4
10°	7063.0	7233.8	7287.8	7515.6	7839.4	8181.2	8160.2	8169.1	7896.3	7257.8	6574.3
12.5°	6568.3	6454.3	6637.3	6775.1	7263.8	7926.3	8229.1	8295.0	8316.0	7623.5	6736.1
15°	6343.5	6343.5	6373.5	6412.4	6766.1	7377.7	7995.3	8187.1	8639.8	8103.2	6991.0
17.5°	6484.3	6478.4	6520.4	6439.4	6571.3	7042.0	7779.4	7998.3	9002.5	8573.8	7191.9
20°	6913.0	6934.0	6907.1	6673.2	6682.2	7036.0	7539.6	7884.3	9248.4	8981.6	7458.6
22.5°	7509.6	7521.6	7368.7	7113.9	7038.9	7212.8	7677.5	7941.3	9446.3	9470.2	7539.6
25°	8199.1	8151.2	8121.2	7761.4	7533.6	7683.5	7989.3	8142.2	9569.1	9889.9	7770.4
27.5°	9155.5	9059.5	8876.6	8555.8	8388.0	8175.1	8394.0	8645.8	9919.9	10477.5	8022.2
30°	10567.4	10483.5	10126.8	9713.0	9272.4	9062.5	9131.4	9269.4	10552.4	11158.0	8355.0
32.5°	12692.9	12516.0	12000.4	11211.9	10612.4	10033.8	10015.8	10162.7	11119.1	12099.3	8750.7
35°	15034.2	14980.3	14221.8	13409.4	12249.3	11355.8	11370.9	11448.8	12204.2	13334.5	9269.4
37.5°	16590.1	16886.9	16404.2	15531.9	14557.6	13280.5	12956.7	12983.7	13694.2	14797.4	10204.7
40°	17792.3	17540.5	17597.4	17393.6	16728.0	15858.6	15142.1	15001.3	15418.0	16416.2	11134.0
42.5°	17267.7	17279.6	17630.3	18113.1	18277.9	18214.9	17483.5	17216.7	16892.9	17741.3	12018.4
45°	15786.7	16095.5	16551.1	17828.2	18949.5	20001.7	19857.7	19414.1	17912.1	18790.5	12528.0
47.5°	13424.4	13412.4	14158.8	15819.7	18310.9	20775.1	21428.7	21116.9	18634.6	18673.6	12423.1
48°	12552.0	12767.8	13538.3	15492.9	17906.2	20661.2	21569.5	21176.9	18511.8	18517.7	12333.2
50°	9278.4	9239.4	10198.7	12597.0	15993.6	19414.1	20975.9	21281.8	18508.7	17729.3	11703.7
52.5°	4901.5	5069.4	5767.9	7920.4	11307.9	15888.6	18502.8	18979.4	17855.2	16440.3	10798.3
55°	2083.5	1882.6	2419.2	3576.4	6361.5	10615.4	13574.2	14635.5	15097.2	14548.6	9446.3
57.5°	743.5	812.4	935.3	1346.1	2674.1	5809.9	8094.2	8918.6	10459.5	10675.3	6436.4
60°	476.7	485.6	524.6	617.6	1004.3	2239.4	3840.2	4496.8	5195.3	5363.2	3003.8
62.5°	368.7	371.8	389.7	404.7	476.7	869.4	1442.0	1708.7	1774.7	1525.9	788.4
65°	308.8	311.8	317.7	317.7	338.7	407.7	503.6	554.6	539.6	533.6	446.7
67.5°	236.9	242.8	254.8	254.8	266.8	248.8	278.8	296.8	335.8	407.7	380.7
70°	185.9	188.9	197.9	203.8	203.8	179.9	200.8	218.8	245.9	302.8	299.8
72.5°	143.9	149.9	155.9	155.9	146.9	122.9	143.9	158.9	176.9	209.8	203.8
75°	111.0	111.0	113.9	92.9	72.0	63.0	86.9	104.9	131.9	137.9	113.9
77.5°	30.0	33.0	30.0	27.0	30.0	44.9	56.9	65.9	83.9	83.9	74.9
80°	0.0	3.0	9.0	18.0	30.0	42.0	51.0	56.9	65.9	72.0	69.0
82.5°	0.0	3.0	9.0	18.0	27.0	33.0	44.9	48.0	53.9	63.0	63.0
85°	0.0	3.0	6.0	12.0	18.0	21.0	21.0	18.0	18.0	15.0	12.0
87.5°	0.0	0.0	3.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0
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°	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7	5938.7
2.5°	5968.7	5875.8	5734.9	5513.0	5300.2	5162.3	5030.4	4883.5	4802.5	4796.6	4751.6
5°	6040.7	5830.8	5495.1	5114.3	4706.6	4355.9	4002.1	3771.3	3564.5	3450.5	3429.5
7.5°	6079.7	5806.8	5264.3	4625.7	3930.2	3357.6	2961.9	2671.1	2557.2	2473.3	2470.2
10°	6160.6	5764.8	4919.5	3978.2	3117.7	2539.2	2266.4	2134.5	2071.5	2047.5	2011.5
12.5°	6220.5	5686.9	4565.8	3312.6	2464.3	2104.5	1984.6	1954.6	1957.6	1969.6	1954.6
15°	6304.5	5617.9	4089.1	2719.0	2068.5	1894.6	1894.6	1900.7	1942.6	1948.6	1945.6
17.5°	6298.5	5483.0	3597.4	2239.4	1828.7	1804.7	1813.7	1870.7	1897.7	1906.6	1885.6
20°	6370.4	5357.1	3090.8	1912.6	1693.8	1729.7	1789.7	1804.7	1837.7	1843.7	1819.7
22.5°	6349.4	5042.4	2620.2	1654.8	1591.8	1660.8	1720.8	1738.7	1729.7	1711.8	1708.7
25°	6310.5	4772.6	2188.4	1483.9	1516.9	1591.8	1648.8	1615.9	1597.9	1600.8	1603.8
27.5°	6241.5	4430.8	1831.7	1364.0	1415.0	1525.9	1522.9	1511.0	1528.9	1513.9	1528.9
30°	6229.5	4089.1	1537.9	1256.1	1340.0	1421.0	1426.9	1448.0	1469.0	1442.0	1469.0
32.5°	6247.6	3714.3	1328.0	1190.2	1295.1	1298.1	1364.0	1385.0	1370.0	1310.0	1316.1
35°	6385.4	3426.6	1175.1	1154.1	1223.1	1226.1	1289.1	1262.1	1196.1	1160.2	1181.2
37.5°	6676.2	3186.7	1103.2	1121.2	1127.2	1166.2	1169.2	1115.2	1121.2	1118.2	1130.2
40°	7047.9	3003.8	1052.3	1091.2	1085.2	1112.2	1004.3	1034.3	1061.3	1070.2	1076.2
42.5°	7302.8	2872.0	1019.2	1043.3	1031.3	983.3	923.3	953.3	974.3	1007.3	1013.3
45°	7416.7	2767.0	980.3	959.3	959.3	872.3	848.4	854.4	902.3	938.3	932.3
47.5°	7230.8	2665.1	911.3	848.4	869.4	797.4	770.5	770.5	821.4	866.4	857.4
48°	7158.9	2623.1	914.3	824.4	839.4	785.4	758.5	752.5	809.4	851.4	851.4
50°	6802.2	2467.2	836.4	758.5	728.5	722.5	704.5	710.5	746.4	785.4	785.4
52.5°	6106.6	2131.5	707.5	650.5	596.6	632.6	641.5	629.5	647.5	683.5	680.5
55°	5096.3	1636.9	566.6	539.6	497.7	536.6	554.6	539.6	521.6	548.6	548.6
57.5°	3264.6	881.3	452.7	458.7	416.7	455.7	470.7	434.7	401.7	422.7	419.7
60°	1472.0	527.6	371.8	362.8	335.8	380.7	404.7	362.8	317.7	332.8	347.7
62.5°	551.6	374.7	281.8	275.8	269.8	311.8	323.8	290.8	245.9	254.8	257.8
65°	404.7	329.8	224.9	203.8	215.9	245.9	239.8	206.9	176.9	176.9	182.8
67.5°	344.8	287.8	182.8	158.9	158.9	161.8	149.9	131.9	122.9	128.9	134.9
70°	269.8	227.9	143.9	122.9	111.0	98.9	86.9	83.9	74.9	83.9	81.0
72.5°	173.9	152.9	111.0	92.9	83.9	69.0	56.9	53.9	44.9	42.0	42.0
75°	92.9	92.9	86.9	74.9	65.9	53.9	44.9	35.9	24.0	18.0	18.0
77.5°	65.9	72.0	77.9	72.0	60.0	44.9	35.9	24.0	12.0	6.0	6.0
80°	63.0	72.0	77.9	69.0	60.0	44.9	33.0	18.0	9.0	3.0	3.0
82.5°	56.9	65.9	72.0	63.0	53.9	39.0	30.0	18.0	9.0	3.0	3.0
85°	12.0	15.0	18.0	18.0	21.0	27.0	21.0	15.0	6.0	3.0	3.0
87.5°	9.0	9.0	9.0	9.0	9.0	9.0	6.0	6.0	3.0	3.0	3.0
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)