

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: P532859

Luminaire Tested: **GALN-SA8B-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24425 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

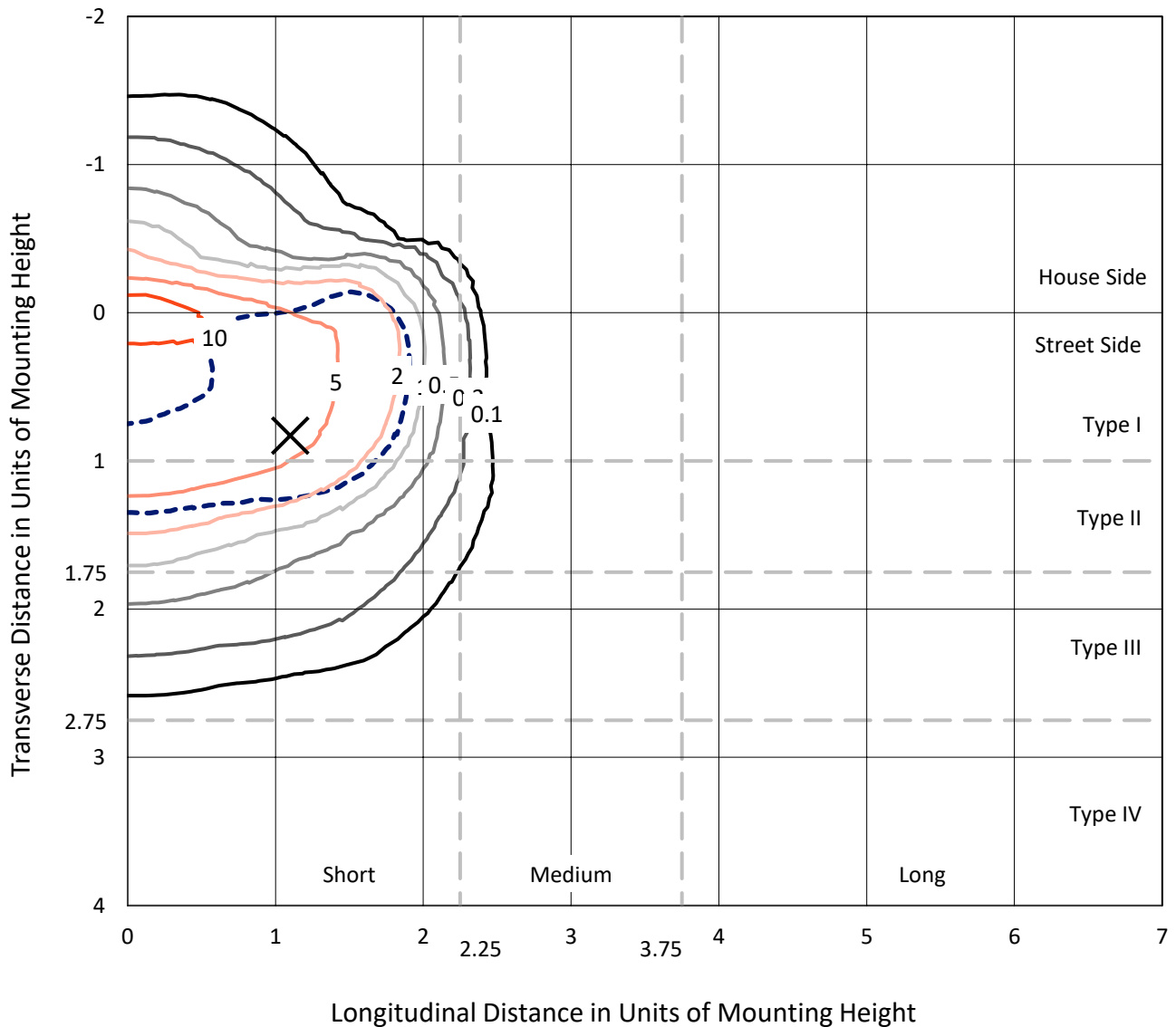
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

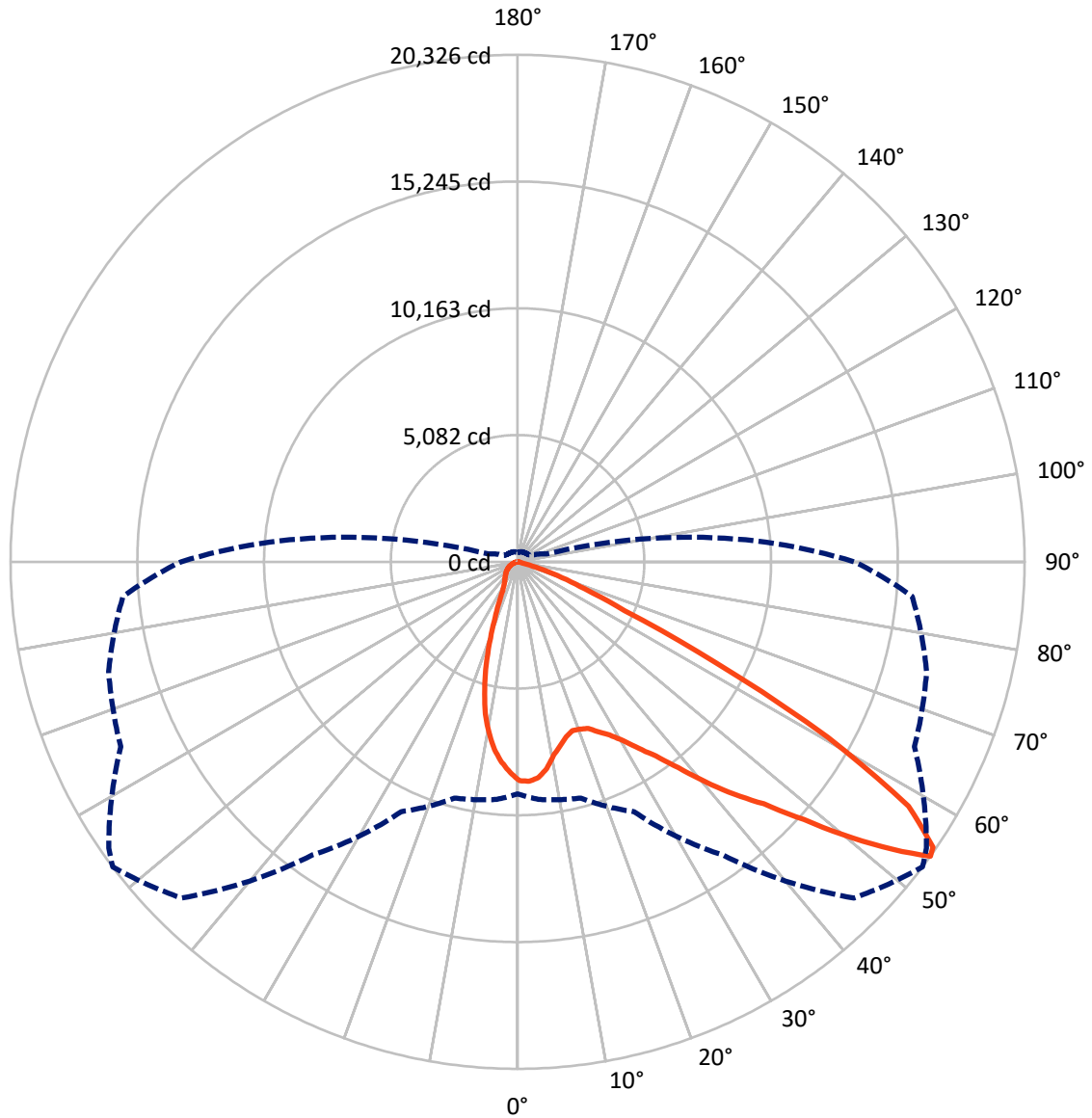
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4041.2	0.0	4041.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20383.8	0.0	20383.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	24425.0	0.0	24425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.7	3.1
10°-20°	1725.7	7.1
20°-30°	2452.6	10.0
30°-40°	3785.0	15.5
40°-50°	5934.6	24.3
50°-60°	6893.8	28.2
60°-70°	2604.9	10.7
70°-80°	247.7	1.0
80°-90°	27.9	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°	24425.0	100.0
0°-180°	24425.0	100.0

Coefficient of Utilization



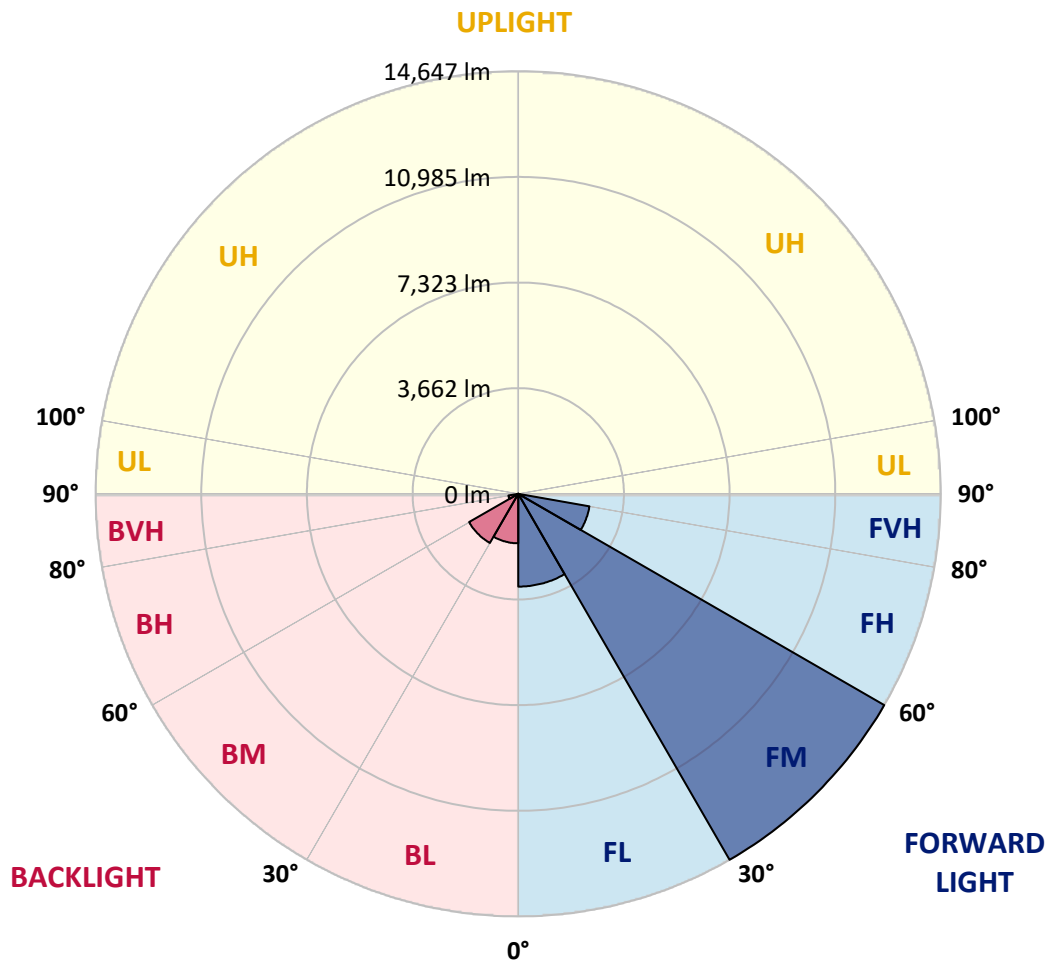
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3216.1	13.2			
FM (30°-60°)	14646.9	60.0			
FH (60°-80°)	2506.4	10.3			G2/5000
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1714.9	7.0	B3/2500		
BM (30°-60°)	1966.6	8.1	B2/2500		
BH (60°-80°)	346.3	1.4	B1/500		G1/500
BVH (80°-90°)	13.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0
2.5°	8727.5	8650.2	8727.5	8736.6	8791.2	8841.3	8809.5	8882.3	8841.3	8795.8	8782.1
5°	8022.2	8126.9	8131.5	8295.3	8258.9	8559.2	8691.1	8654.7	8877.7	8864.1	8832.2
7.5°	7389.7	7348.8	7403.4	7594.5	7835.7	8181.5	8372.6	8368.1	8686.6	8914.1	8891.4
10°	6802.8	6798.2	6912.0	7062.1	7266.9	7630.9	7894.8	8026.8	8522.8	8868.6	8918.7
12.5°	6406.9	6388.7	6511.5	6634.4	6957.5	7239.6	7576.3	7640.0	8208.8	8709.3	8791.2
15°	6147.5	6188.5	6197.6	6434.2	6638.9	7012.1	7276.0	7407.9	8063.2	8581.9	8895.9
17.5°	6102.0	6156.6	6161.2	6356.8	6575.2	6889.2	7121.3	7298.7	7940.3	8645.6	8900.5
20°	6193.0	6161.2	6188.5	6311.3	6525.2	6825.5	7162.2	7221.4	7899.4	8677.5	8950.5
22.5°	6452.4	6443.3	6375.0	6475.1	6625.3	6939.3	7257.8	7348.8	8017.7	8841.3	8991.5
25°	6739.0	6789.1	6725.4	6711.7	6816.4	7125.8	7549.0	7667.3	8413.6	9137.1	9118.9
27.5°	7276.0	7225.9	7225.9	7162.2	7134.9	7285.1	7863.0	8058.6	8855.0	9519.3	9264.5
30°	7790.2	7844.8	7803.8	7826.6	7644.6	7630.9	8308.9	8550.1	9637.6	10101.7	9573.9
32.5°	8604.7	8531.9	8600.1	8541.0	8299.8	8054.1	8914.1	9164.4	10584.1	10770.6	10038.0
35°	9282.7	9250.8	9542.1	9533.0	9141.6	8900.5	9555.7	9928.8	11243.9	11571.5	10584.1
37.5°	10247.4	10188.2	10520.4	10679.6	10329.3	9969.8	10474.9	10907.2	11858.2	12213.1	11143.8
40°	11239.3	11389.5	11835.4	12099.3	11726.2	11248.4	11598.8	11730.8	12267.7	12631.7	11526.0
42.5°	12495.2	12713.6	13168.7	13396.2	13364.3	12845.6	12740.9	12736.4	12563.5	12513.4	11808.1
45°	13701.1	13619.2	14319.9	14815.9	15216.3	15066.2	13842.1	13705.6	13032.2	12690.9	11880.9
47.5°	14228.9	14201.6	14679.4	15562.1	16927.3	17113.8	15443.8	14916.0	13823.9	13437.1	12276.8
50°	13546.4	13687.4	14160.6	15139.0	17232.1	18656.4	17409.6	16699.7	14747.6	14347.2	13214.2
52.5°	11316.7	11412.2	11862.7	13105.0	16194.6	19566.4	19293.4	18883.9	16444.9	15780.6	14847.7
54°	9305.4	9560.3	9806.0	11052.8	14347.2	19061.4	20326.4	20012.4	17550.6	16972.8	15876.1
55°	8104.1	8254.3	8431.8	9674.0	13068.6	18205.9	20208.0	20235.3	18292.4	17345.9	16567.8
57.5°	5920.0	6024.6	5842.6	6393.2	8973.3	14784.0	18483.5	19220.6	19293.4	17905.6	16991.0
60°	4523.0	4568.5	4363.8	4450.2	5578.7	10147.2	14297.2	15184.5	17405.0	15648.6	14392.7
62.5°	3508.3	3517.4	3512.9	3663.0	3845.0	5970.0	8941.4	9728.6	11999.2	11111.9	9774.1
65°	2584.6	2543.6	2616.4	3071.5	3280.8	3754.0	4709.6	5282.9	6520.6	5505.9	3936.0
67.5°	1674.5	1688.2	1761.0	2284.3	2812.1	2880.4	2898.6	2853.1	2857.6	1574.4	987.4
70°	1005.6	1028.4	1005.6	1292.3	2011.2	2065.9	1888.4	1842.9	1437.9	373.1	368.6
72.5°	596.1	564.2	505.1	555.1	837.3	1001.1	901.0	896.4	564.2	218.4	218.4
75°	250.3	227.5	186.6	168.4	223.0	213.9	213.9	191.1	150.2	145.6	136.5
77.5°	50.1	50.1	36.4	41.0	54.6	63.7	77.4	77.4	91.0	91.0	86.5
80°	0.0	4.6	13.7	27.3	41.0	59.2	68.3	68.3	77.4	77.4	63.7
82.5°	0.0	4.6	13.7	27.3	36.4	54.6	68.3	68.3	77.4	81.9	68.3
85°	0.0	4.6	13.7	22.8	36.4	45.5	45.5	41.0	31.9	27.3	18.2
87.5°	0.0	0.0	4.6	9.1	4.6	9.1	9.1	9.1	9.1	9.1	9.1
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°	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0	8773.0
2.5°	8814.0	8809.5	8700.2	8522.8	8481.8	8331.7	8313.5	8222.5	8272.5	8104.1	8085.9
5°	8741.2	8686.6	8554.6	8440.9	8108.7	7872.1	7685.5	7458.0	7326.0	7348.8	7262.3
7.5°	8845.9	8704.8	8472.7	8076.8	7671.9	7257.8	7034.8	6570.7	6402.3	6152.1	6115.7
10°	8736.6	8632.0	8272.5	7617.3	7057.6	6461.5	5938.2	5424.0	5032.7	4864.3	4827.9
12.5°	8727.5	8545.5	7944.9	7216.8	6406.9	5551.4	4791.5	4149.9	3763.1	3544.7	3494.7
15°	8586.5	8368.1	7576.3	6598.0	5478.6	4413.8	3585.7	2966.8	2671.0	2543.6	2580.0
17.5°	8600.1	8272.5	7207.7	5942.7	4564.0	3239.8	2448.1	2129.6	2052.2	2084.1	2084.1
20°	8586.5	8058.6	6761.8	5187.4	3494.7	2247.9	1797.4	1683.6	1733.7	1833.8	1811.0
22.5°	8513.7	7958.5	6352.3	4391.1	2570.9	1665.4	1442.5	1447.0	1524.4	1647.2	1674.5
25°	8568.3	7735.6	5833.5	3585.7	1874.7	1328.7	1251.3	1283.2	1365.1	1456.1	1474.3
27.5°	8527.3	7576.3	5292.0	2784.8	1369.7	1142.1	1137.6	1174.0	1210.4	1278.6	1278.6
30°	8572.8	7430.7	4759.7	2070.4	1128.5	1046.6	1028.4	1055.7	1092.1	1105.7	1101.2
32.5°	8741.2	7321.5	4145.4	1547.1	996.5	955.6	955.6	955.6	951.0	969.2	973.8
35°	9109.8	7339.7	3603.9	1196.7	910.1	878.2	864.6	846.4	837.3	846.4	850.9
37.5°	9510.2	7330.6	3044.2	1019.3	846.4	819.1	787.2	759.9	755.4	764.5	750.8
40°	9687.7	7417.0	2525.4	914.6	787.2	755.4	705.3	682.6	687.1	696.2	687.1
42.5°	9928.8	7444.4	2188.7	832.7	732.6	682.6	650.7	623.4	618.8	632.5	627.9
45°	9924.3	7289.6	1833.8	787.2	682.6	627.9	587.0	564.2	564.2	573.3	577.9
47.5°	10215.5	7266.9	1574.4	746.3	646.1	591.5	541.5	523.3	518.7	518.7	509.6
50°	10893.5	7585.4	1374.2	700.8	600.6	550.6	509.6	486.9	468.7	459.6	455.0
52.5°	12217.7	8577.4	1219.5	646.1	550.6	509.6	473.2	455.0	432.3	409.5	405.0
54°	13500.8	9601.2	1210.4	600.6	509.6	482.3	450.5	441.4	414.1	382.2	373.1
55°	14078.7	10197.3	1242.2	564.2	482.3	464.1	436.8	427.7	400.4	364.0	359.5
57.5°	14556.5	10429.4	1224.0	468.7	436.8	432.3	409.5	395.9	364.0	314.0	304.9
60°	11717.1	7885.7	878.2	414.1	400.4	391.3	373.1	364.0	323.1	268.5	263.9
62.5°	7403.4	4536.7	559.7	364.0	350.4	336.7	314.0	304.9	268.5	213.9	200.2
65°	3153.4	1879.3	377.7	323.1	300.3	277.6	259.4	245.7	213.9	159.3	154.7
67.5°	819.1	668.9	314.0	282.1	250.3	218.4	204.8	182.0	145.6	109.2	104.7
70°	368.6	336.7	263.9	236.6	200.2	168.4	150.2	127.4	95.6	72.8	68.3
72.5°	218.4	213.9	200.2	177.5	150.2	127.4	109.2	86.5	63.7	41.0	41.0
75°	136.5	132.0	136.5	122.9	104.7	95.6	81.9	59.2	36.4	18.2	18.2
77.5°	81.9	81.9	81.9	77.4	72.8	72.8	59.2	36.4	18.2	4.6	4.6
80°	63.7	63.7	68.3	63.7	63.7	63.7	50.1	27.3	9.1	0.0	0.0
82.5°	63.7	68.3	77.4	72.8	63.7	54.6	45.5	27.3	9.1	0.0	0.0
85°	18.2	13.7	22.8	31.9	45.5	41.0	31.9	22.8	9.1	0.0	0.0
87.5°	9.1	9.1	9.1	9.1	4.6	4.6	4.6	4.6	4.6	0.0	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)