

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: P528514

Luminaire Tested: **GALN-SA3C-760-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528514
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-SA3C-760-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA 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: 18938 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

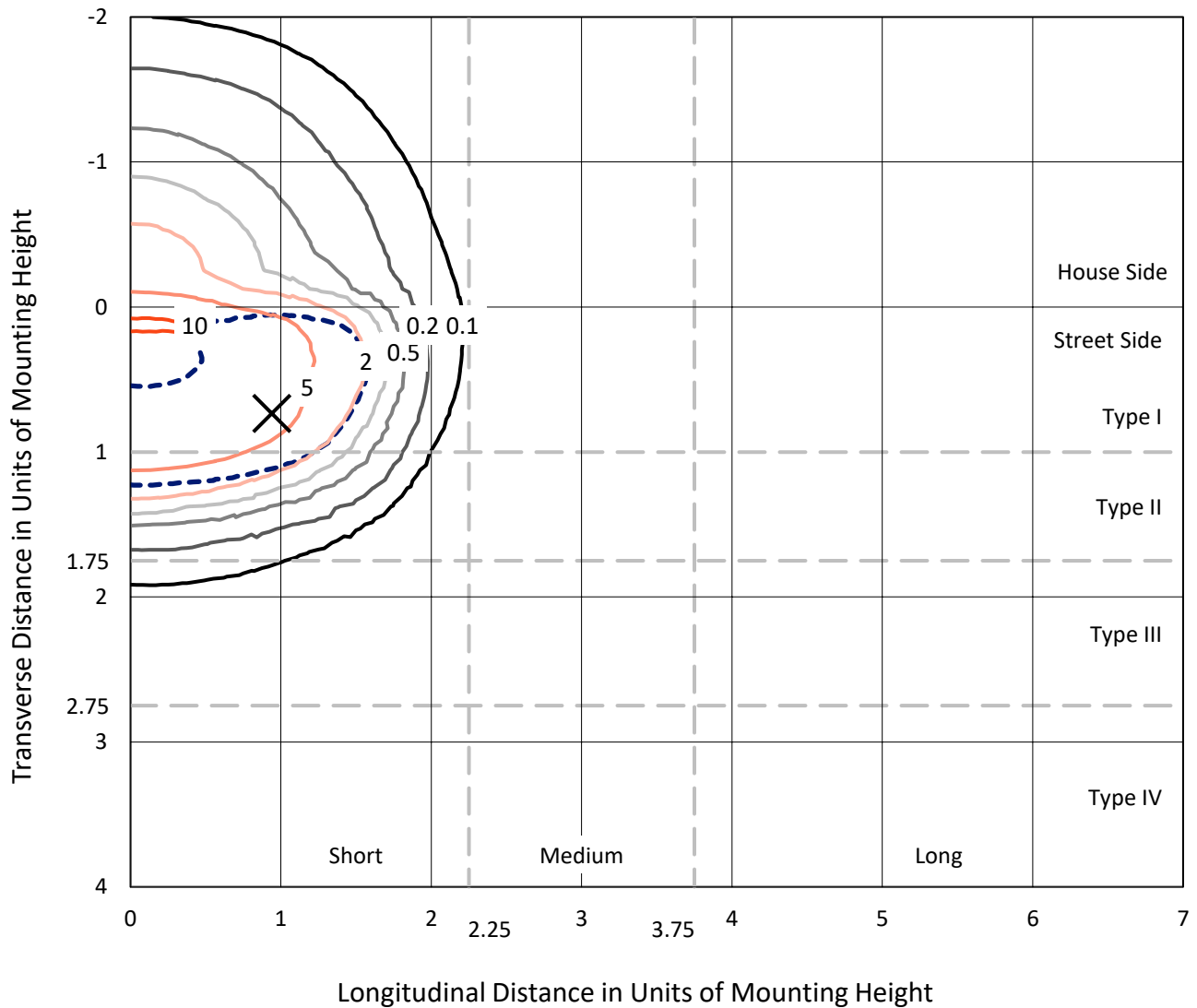
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

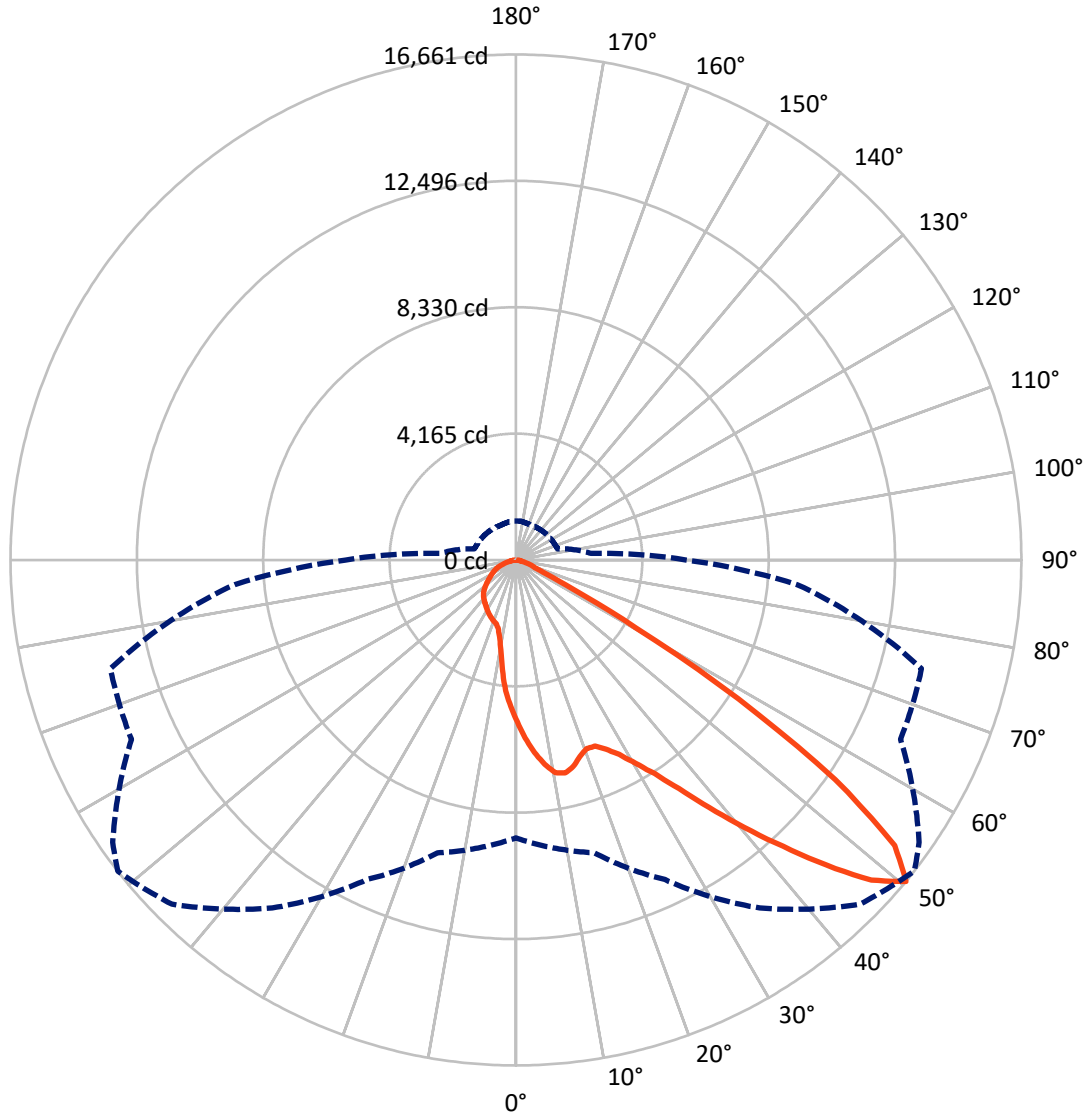
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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
House Side	Lumens	3559.9	0.0	3559.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15378.1	0.0	15378.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	18938.0	0.0	18938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.0	2.6
10°-20°	1318.8	7.0
20°-30°	2221.4	11.7
30°-40°	3727.7	19.7
40°-50°	5702.5	30.1
50°-60°	4157.6	22.0
60°-70°	925.3	4.9
70°-80°	333.7	1.8
80°-90°	59.1	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°	18938.0	100.0
0°-180°	18938.0	100.0

Coefficient of Utilization



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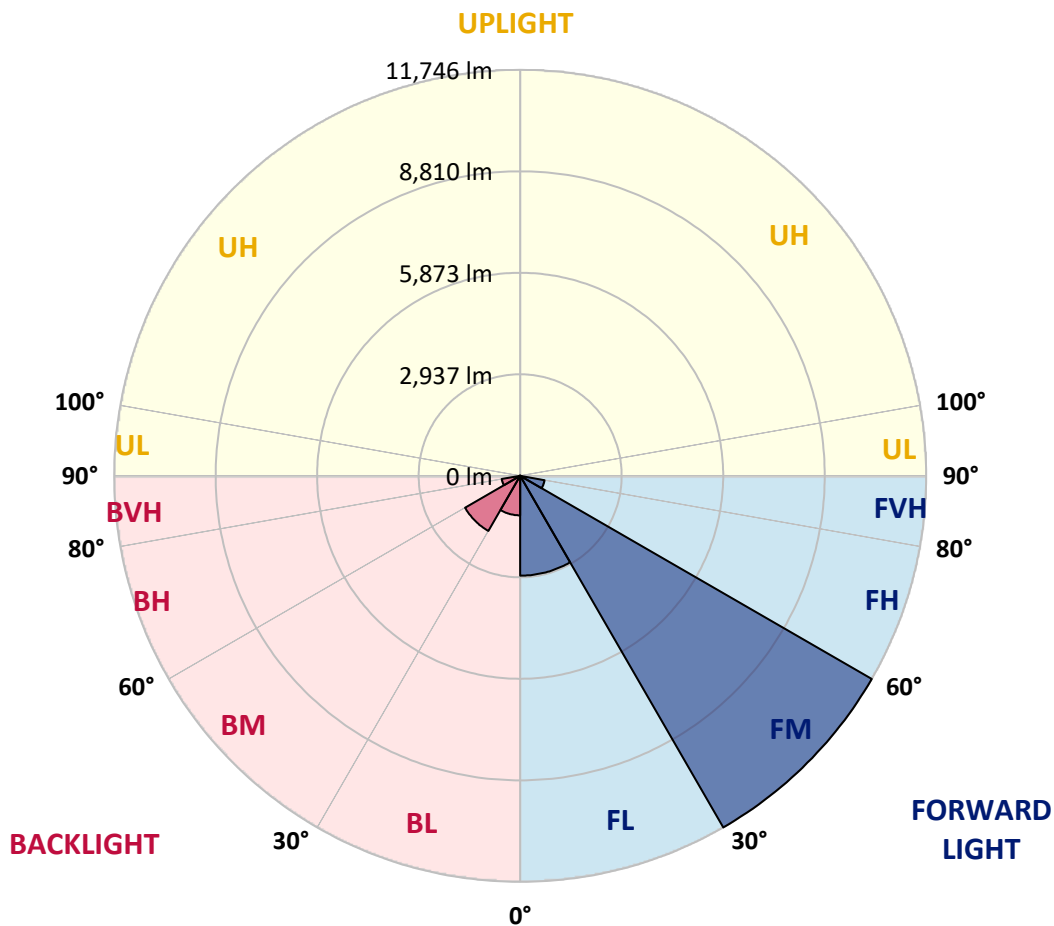
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2888.7	15.3			
FM (30°-60°)	11746.3	62.0			
FH (60°-80°)	716.6	3.8			G1/1800
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	1143.5	6.0	B3/2500		
BM (30°-60°)	1841.4	9.7	B2/2500		
BH (60°-80°)	542.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	32.6	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°	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3
2.5°	6285.5	6164.5	6178.2	6091.5	5997.9	5970.5	5874.6	5783.4	5714.9	5568.8	5434.2
5°	6869.7	6833.2	6778.4	6710.0	6639.2	6465.8	6367.6	6253.5	6002.5	5776.5	5552.8
7.5°	6954.2	6947.3	6977.0	6977.0	7002.1	6935.9	6796.7	6716.8	6449.8	6082.3	5667.0
10°	6360.8	6381.3	6525.1	6712.3	6972.4	7152.7	7129.9	7109.4	6817.2	6315.1	5801.6
12.5°	5888.3	5842.7	5927.1	6086.9	6477.2	6913.1	7207.5	7209.8	7134.5	6687.1	5899.8
15°	5621.3	5653.3	5676.1	5751.4	6045.8	6550.2	7068.3	7221.2	7552.1	6949.6	6055.0
17.5°	5792.5	5685.2	5680.7	5698.9	5849.5	6228.4	6810.4	7072.9	7780.4	7287.4	6246.7
20°	6016.2	6013.9	5950.0	5927.1	5924.9	6262.6	6641.5	6997.5	7901.3	7725.6	6440.7
22.5°	6408.7	6408.7	6303.7	6253.5	6146.2	6422.4	6664.3	6906.3	8102.2	8026.9	6534.2
25°	7066.0	6958.7	6778.4	6655.2	6593.6	6691.7	6906.3	7123.1	8277.9	8346.4	6728.2
27.5°	7673.1	7504.2	7415.2	7203.0	7120.8	7063.7	7260.0	7479.1	8483.3	8843.9	6833.2
30°	8362.4	8332.7	8172.9	7899.1	7695.9	7590.9	7771.2	7988.1	8859.9	9352.9	7075.1
32.5°	9594.8	9325.5	9108.7	8773.2	8442.2	8218.6	8396.6	8540.4	9485.3	9884.7	7339.9
35°	10925.4	10838.7	10464.4	9859.6	9352.9	9152.0	9257.0	9364.3	10213.3	10697.2	7784.9
37.5°	12233.1	12114.5	11806.4	11297.4	10681.2	10272.6	10348.0	10473.5	11030.4	11792.7	8328.1
40°	13173.5	13027.4	12872.2	12796.9	12185.2	11626.1	11582.7	11614.6	12135.0	12819.7	8930.7
42.5°	13241.9	13422.2	13470.2	13773.7	13629.9	13171.2	12904.1	12911.0	13189.4	13835.3	9540.0
45°	13098.1	12931.5	13285.3	14113.8	14588.5	14803.0	14353.4	14296.4	13842.2	14424.2	9843.6
47.5°	11589.5	11635.2	12233.1	13543.2	14914.9	15873.4	15768.4	15579.0	14191.4	14403.6	9795.6
50°	9161.2	9437.3	9991.9	11623.8	14001.9	16042.3	16660.8	16222.6	13983.7	13837.6	9307.2
52.5°	6100.6	6214.7	6579.9	8686.4	11258.6	14339.7	15633.8	15734.2	13792.0	13095.9	8688.7
55°	2715.9	2706.8	3220.3	4537.2	7063.7	10911.7	12774.1	13385.7	13054.8	12340.4	8086.2
57.5°	1150.3	1189.1	1399.1	1960.5	3473.7	6584.4	8654.5	9190.8	10039.9	10133.4	6203.3
60°	778.3	782.8	839.9	981.4	1453.8	3092.5	4539.5	5183.1	5790.2	5749.1	3291.1
62.5°	611.7	627.6	671.0	728.1	862.7	1403.6	2031.3	2389.6	2428.4	2042.7	1248.4
65°	522.6	524.9	568.3	616.2	675.6	817.1	979.1	997.4	1008.8	972.3	917.5
67.5°	431.4	435.9	470.2	524.9	579.7	625.4	671.0	693.8	746.3	849.0	835.3
70°	342.3	349.2	378.9	424.5	474.7	502.1	559.2	579.7	627.6	707.5	739.5
72.5°	260.2	262.5	287.6	319.5	365.2	392.6	440.5	463.3	495.3	563.7	593.4
75°	187.1	194.0	212.3	228.2	235.1	253.3	299.0	324.1	369.7	399.4	401.7
77.5°	98.1	102.7	107.3	107.3	130.1	164.3	194.0	207.7	239.6	262.5	251.1
80°	38.8	41.1	52.5	70.8	91.3	118.7	139.2	146.1	173.5	187.1	194.0
82.5°	22.8	25.1	34.2	50.2	66.2	84.4	100.4	107.3	125.5	141.5	146.1
85°	11.4	13.7	20.5	32.0	43.4	52.5	50.2	47.9	47.9	45.6	47.9
87.5°	4.6	4.6	6.8	6.8	6.8	9.1	11.4	11.4	11.4	13.7	13.7
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°	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3	5338.3
2.5°	5345.2	5253.9	5169.4	5014.2	4845.3	4797.4	4601.1	4530.4	4480.2	4420.8	4402.6
5°	5372.5	5251.6	4980.0	4667.3	4418.5	4099.0	3889.0	3663.1	3498.8	3457.7	3446.3
7.5°	5429.6	5221.9	4754.0	4281.6	3772.6	3339.0	3008.1	2830.1	2672.6	2663.4	2647.5
10°	5493.5	5132.9	4507.5	3765.8	3115.3	2713.7	2515.1	2437.5	2398.7	2389.6	2385.0
12.5°	5546.0	5114.6	4231.4	3263.7	2649.8	2407.8	2348.5	2341.6	2357.6	2362.2	2371.3
15°	5568.8	5041.6	3898.2	2814.1	2359.9	2270.9	2296.0	2323.4	2334.8	2364.5	2341.6
17.5°	5612.2	4948.0	3487.4	2458.0	2197.9	2213.8	2257.2	2289.2	2307.4	2327.9	2298.3
20°	5635.0	4863.6	3101.7	2245.8	2140.8	2170.5	2229.8	2254.9	2277.7	2286.9	2252.6
22.5°	5614.5	4690.1	2761.6	2074.6	2086.0	2124.8	2177.3	2204.7	2191.0	2154.5	2134.0
25°	5559.7	4445.9	2407.8	1965.1	2008.4	2076.9	2118.0	2097.4	2072.3	2051.8	2044.9
27.5°	5557.4	4146.9	2152.2	1864.6	1942.2	2035.8	2022.1	2003.9	2015.3	1999.3	1981.0
30°	5568.8	3857.1	1942.2	1807.6	1894.3	1940.0	1955.9	1937.7	1951.4	1921.7	1930.8
32.5°	5509.5	3574.1	1805.3	1741.4	1837.3	1835.0	1887.5	1901.2	1869.2	1807.6	1816.7
35°	5534.6	3345.9	1688.9	1711.7	1773.3	1773.3	1814.4	1798.5	1714.0	1677.5	1686.6
37.5°	5708.0	3122.2	1631.8	1670.6	1711.7	1730.0	1716.3	1647.8	1627.3	1627.3	1631.8
40°	5872.4	2930.5	1597.6	1661.5	1654.7	1666.1	1565.7	1572.5	1572.5	1574.8	1563.4
42.5°	6018.4	2800.4	1570.2	1606.7	1618.2	1558.8	1497.2	1490.3	1506.3	1504.0	1494.9
45°	6070.9	2693.1	1531.4	1545.1	1554.2	1456.1	1426.4	1412.7	1431.0	1437.9	1447.0
47.5°	5870.1	2604.1	1488.1	1460.7	1442.4	1378.5	1339.7	1314.6	1337.4	1376.2	1385.4
50°	5612.2	2487.7	1419.6	1367.1	1328.3	1300.9	1273.5	1248.4	1264.4	1291.8	1284.9
52.5°	5231.0	2305.1	1332.9	1278.1	1211.9	1218.8	1193.6	1180.0	1189.1	1189.1	1182.2
55°	4687.9	1894.3	1186.8	1148.0	1093.2	1111.5	1116.0	1097.8	1079.5	1095.5	1081.8
57.5°	3199.8	1337.4	1059.0	1059.0	1004.2	1029.3	1027.0	983.7	940.3	944.9	935.7
60°	1850.9	1065.8	976.8	967.7	910.6	931.2	935.7	906.1	839.9	844.5	835.3
62.5°	1052.1	910.6	853.6	839.9	828.5	846.7	846.7	807.9	750.9	755.4	746.3
65°	894.7	844.5	762.3	760.0	755.4	760.0	741.7	700.7	650.5	629.9	632.2
67.5°	812.5	780.5	700.7	680.1	666.4	664.2	629.9	591.1	568.3	550.0	547.8
70°	712.1	687.0	627.6	600.2	586.6	554.6	520.4	495.3	463.3	454.2	463.3
72.5°	563.7	561.4	538.6	509.0	479.3	454.2	424.5	390.3	360.6	353.8	337.8
75°	390.3	394.8	399.4	394.8	369.7	337.8	303.5	276.2	239.6	219.1	214.5
77.5°	255.6	262.5	269.3	260.2	244.2	214.5	191.7	157.5	130.1	114.1	111.8
80°	187.1	196.3	200.8	194.0	175.7	152.9	127.8	100.4	79.9	66.2	66.2
82.5°	143.8	152.9	157.5	146.1	127.8	109.6	91.3	70.8	54.8	43.4	41.1
85°	50.2	47.9	57.1	59.3	70.8	66.2	54.8	41.1	32.0	22.8	20.5
87.5°	13.7	13.7	16.0	16.0	13.7	11.4	11.4	11.4	9.1	6.8	6.8
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)