

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: P528702

Luminaire Tested: **GALN-SA3D-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19537 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

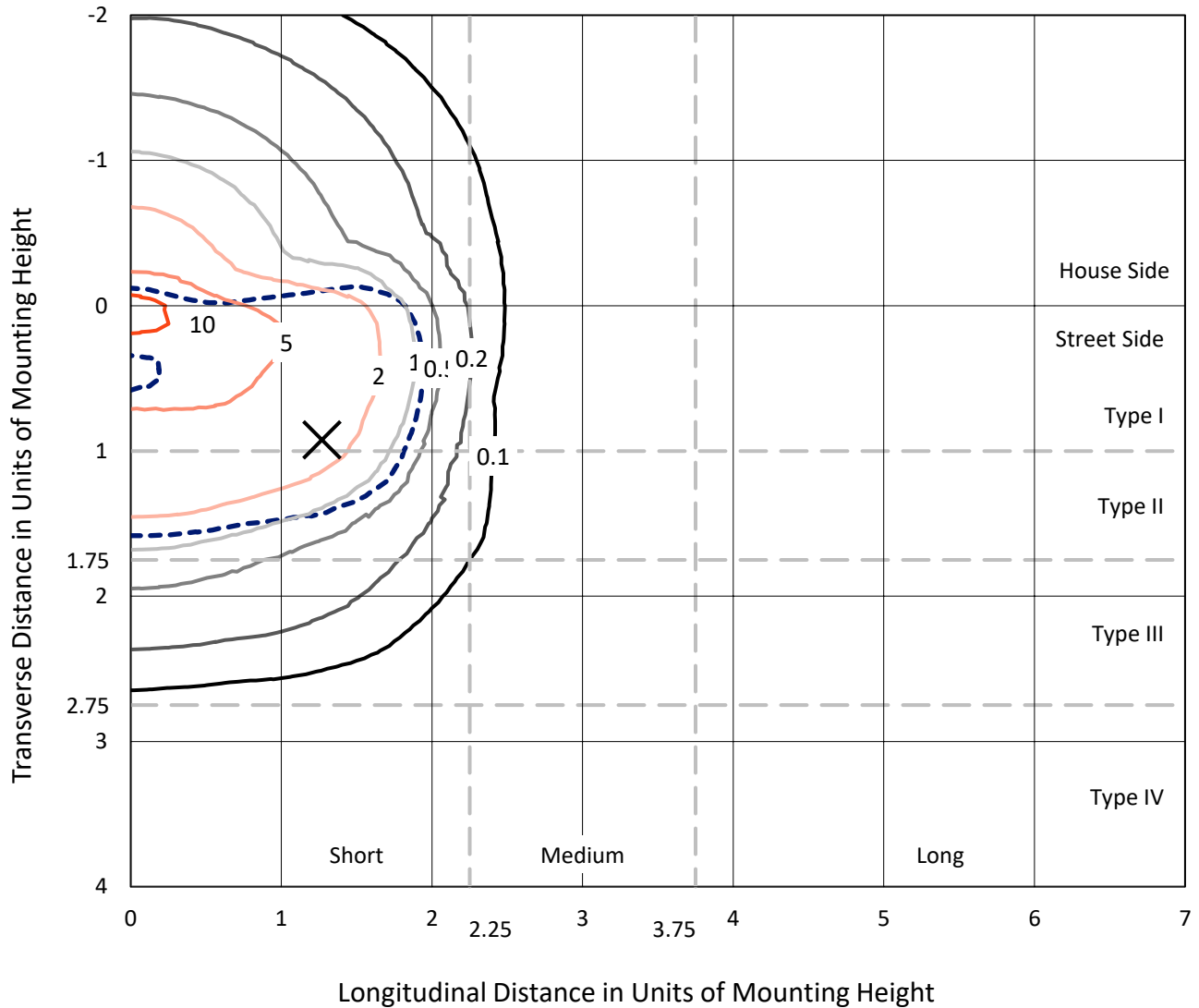
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

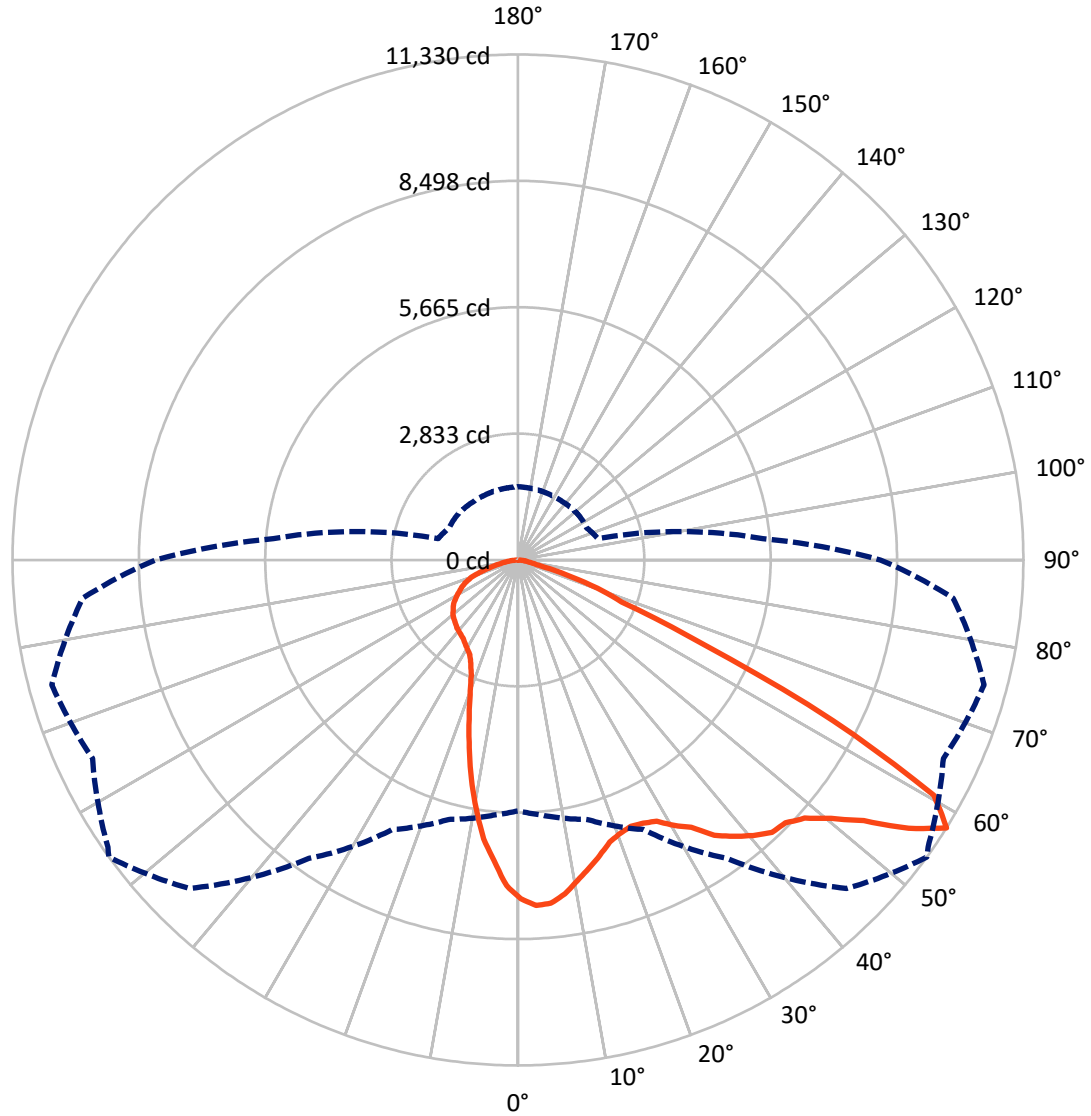
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5405.0	0.0	5405.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	14132.0	0.0	14132.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	19537.0	0.0	19537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.9	3.4
10°-20°	1516.3	7.8
20°-30°	2130.4	10.9
30°-40°	2978.4	15.2
40°-50°	4032.2	20.6
50°-60°	4911.3	25.1
60°-70°	2558.0	13.1
70°-80°	655.5	3.4
80°-90°	100.0	0.5
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°	19537.0	100.0
0°-180°	19537.0	100.0

Coefficient of Utilization



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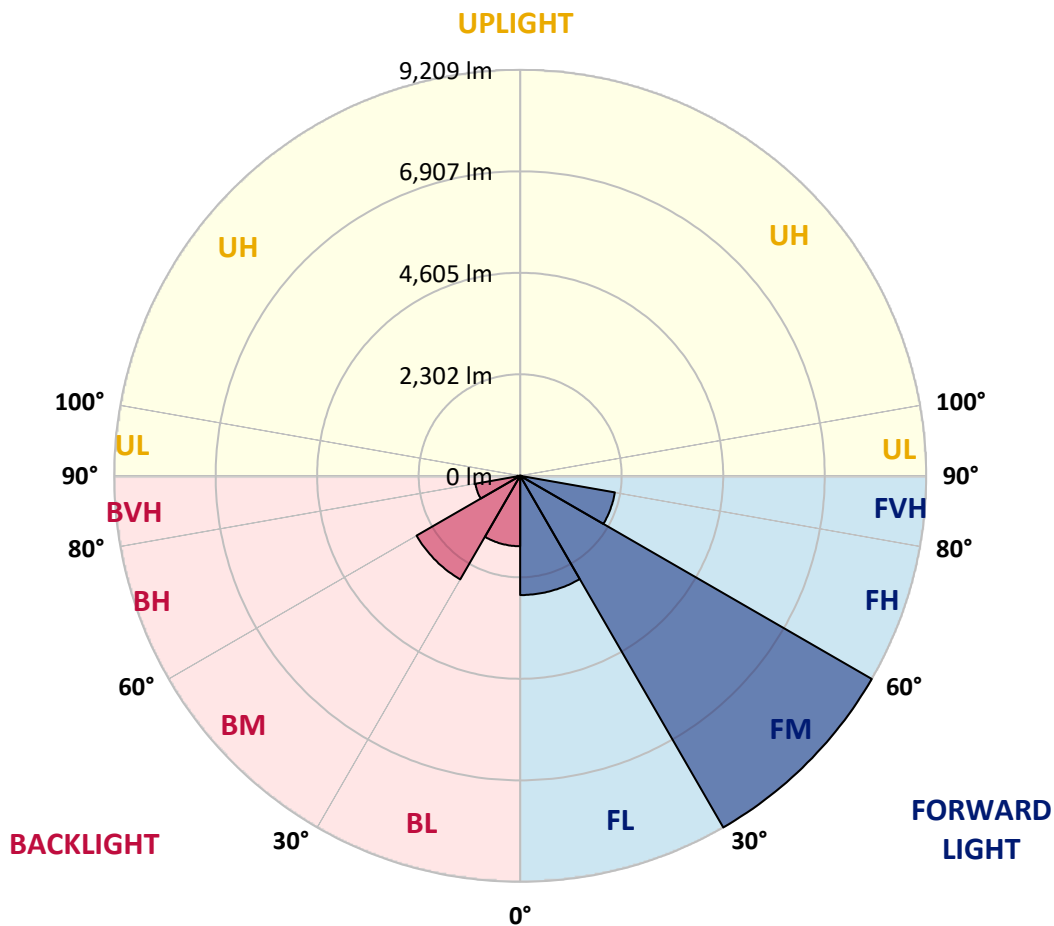
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2704.2	13.8			
FM (30°-60°)	9209.1	47.1			
FH (60°-80°)	2180.9	11.2			G2/5000
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	1597.5	8.2	B3/2500		
BM (30°-60°)	2712.7	13.9	B3/5000		
BH (60°-80°)	1032.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8
2.5°	7809.8	7779.6	7784.7	7824.8	7774.6	7754.5	7754.5	7656.6	7664.1	7596.3	7578.7
5°	7629.0	7558.7	7606.4	7666.6	7676.7	7696.8	7729.4	7704.3	7634.0	7561.2	7443.1
7.5°	7156.9	7219.6	7237.2	7279.9	7370.3	7453.2	7556.1	7485.8	7483.3	7410.5	7340.2
10°	6742.5	6704.9	6800.3	6863.1	7013.7	7151.8	7310.0	7302.5	7340.2	7257.3	7136.8
12.5°	6330.7	6300.6	6345.8	6488.9	6699.8	6900.7	7089.1	7018.7	7219.6	7204.6	6945.9
15°	5893.7	5916.3	5981.6	6114.7	6391.0	6632.0	6870.6	6873.1	7051.4	7111.7	6765.1
17.5°	5587.4	5562.3	5645.1	5843.5	6089.6	6378.4	6649.6	6704.9	6978.6	7013.7	6709.9
20°	5358.9	5394.0	5502.0	5602.4	5886.2	6235.3	6541.6	6561.7	6963.5	7058.9	6622.0
22.5°	5303.6	5283.5	5318.7	5481.9	5715.4	6094.6	6483.9	6559.2	6961.0	7043.9	6456.2
25°	5245.9	5311.1	5308.6	5471.9	5642.6	5981.6	6531.6	6614.4	7094.1	7121.7	6478.8
27.5°	5376.4	5368.9	5439.2	5451.8	5662.7	6011.8	6632.0	6694.8	7315.1	7292.5	6496.4
30°	5507.0	5469.3	5512.0	5660.2	5758.1	6185.0	6908.3	6903.2	7601.3	7586.3	6551.7
32.5°	5667.7	5650.2	5677.8	5808.4	5974.1	6416.1	7141.8	7290.0	7892.6	7988.1	6742.5
35°	5697.9	5770.7	5836.0	6011.8	6247.8	6790.2	7581.3	7704.3	8229.1	8528.0	7106.6
37.5°	5888.7	5916.3	6069.5	6380.9	6596.9	7290.0	7860.0	7937.8	8535.5	8874.5	7490.8
40°	6092.1	6124.8	6355.8	6682.2	6978.6	7616.4	8121.2	8146.3	8633.4	9140.7	7742.0
42.5°	6368.4	6398.5	6627.0	7036.3	7433.1	7895.1	8352.2	8379.8	8625.9	9447.1	8141.2
45°	6654.6	6727.5	6996.1	7460.7	7817.3	8221.6	8404.9	8517.9	8696.2	9720.8	8465.2
47.5°	7056.4	7124.2	7345.2	7799.7	8216.6	8507.9	8648.5	8759.0	8864.5	9959.3	8673.6
50°	7483.3	7495.9	7764.6	8176.4	8482.8	8831.8	9103.0	9140.7	9085.4	10235.6	9027.7
52.5°	7797.2	7837.4	8045.8	8447.6	8904.6	9334.1	9705.7	9745.9	9637.9	10338.5	9148.2
55°	7277.4	7254.8	7593.8	8128.7	9188.4	10082.4	10622.3	10652.4	10039.7	10657.4	9542.5
57.5°	5625.0	5733.0	6021.8	6667.2	8163.8	10413.9	11330.4	11222.5	10521.8	10818.2	9793.6
60°	4088.2	4063.1	4256.4	4688.4	6152.4	8975.0	10712.7	10823.2	10127.6	9750.9	8076.0
62.5°	3329.8	3294.7	3309.7	3324.8	3970.2	5956.5	7930.3	7927.8	7799.7	7008.7	5446.7
65°	2661.9	2744.7	2752.3	2865.3	2948.1	3558.3	4595.5	4841.6	4216.3	3457.9	2508.7
67.5°	2006.4	1976.3	2076.7	2478.5	2634.2	2568.9	2508.7	2536.3	1803.0	1300.8	1225.5
70°	1182.8	1170.2	1290.7	1727.7	2169.7	2041.6	1890.9	1893.4	1238.0	909.0	1012.0
72.5°	647.9	645.4	670.5	876.4	1233.0	1280.7	1135.1	1170.2	738.3	735.8	791.0
75°	361.6	354.1	346.5	386.7	444.5	469.6	479.6	484.7	507.3	567.5	590.1
77.5°	133.1	128.1	128.1	148.2	188.3	236.1	298.8	303.9	359.1	411.8	434.4
80°	45.2	50.2	67.8	92.9	125.6	168.2	203.4	208.4	253.6	288.8	296.3
82.5°	27.6	30.1	45.2	65.3	90.4	118.0	150.7	153.2	188.3	210.9	221.0
85°	12.6	15.1	25.1	40.2	57.8	77.8	80.4	80.4	77.8	80.4	75.3
87.5°	0.0	0.0	5.0	5.0	5.0	7.5	10.0	7.5	12.6	15.1	15.1
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°	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8	7593.8
2.5°	7526.0	7498.4	7413.0	7337.7	7315.1	7214.6	7066.5	7084.0	6976.1	7026.3	6973.5
5°	7423.0	7330.1	7111.7	7018.7	6775.2	6664.7	6589.3	6401.0	6313.1	6295.5	6220.2
7.5°	7159.4	7101.6	6827.9	6576.8	6318.1	6097.1	5813.4	5620.0	5481.9	5444.2	5333.7
10°	6950.9	6822.9	6443.7	6062.0	5692.8	5308.6	4939.5	4650.7	4510.1	4346.9	4291.6
12.5°	6745.0	6551.7	6039.4	5549.7	5072.6	4587.9	4140.9	3789.4	3483.0	3410.2	3385.1
15°	6617.0	6280.5	5677.8	5087.7	4409.6	3776.8	3329.8	3098.8	2910.5	2832.6	2887.9
17.5°	6448.7	6057.0	5331.2	4545.2	3799.4	3216.8	2842.7	2699.5	2631.7	2639.3	2616.6
20°	6237.8	5846.0	4876.7	4053.0	3254.5	2789.9	2576.5	2523.7	2533.8	2551.4	2543.8
22.5°	6087.1	5589.9	4547.7	3550.8	2812.5	2553.9	2466.0	2428.3	2461.0	2476.0	2463.5
25°	5971.6	5371.4	4148.5	3106.3	2556.4	2420.8	2380.6	2378.1	2428.3	2448.4	2435.8
27.5°	5866.1	5168.0	3751.7	2767.3	2385.6	2317.8	2305.3	2335.4	2368.0	2388.1	2405.7
30°	5803.3	5012.3	3380.0	2483.6	2300.2	2267.6	2245.0	2272.6	2290.2	2310.3	2300.2
32.5°	5863.6	4901.8	3020.9	2322.8	2229.9	2197.3	2227.4	2209.8	2240.0	2257.6	2229.9
35°	6051.9	4803.9	2764.8	2237.5	2149.6	2162.1	2167.1	2159.6	2172.2	2157.1	2189.7
37.5°	6237.8	4768.7	2528.8	2164.6	2111.9	2111.9	2106.9	2091.8	2116.9	2111.9	2127.0
40°	6473.8	4791.3	2327.9	2086.8	2076.7	2071.7	2051.6	2049.1	2039.1	2041.6	2046.6
42.5°	6679.7	4841.6	2212.3	2036.6	2044.1	2054.1	2016.5	1986.3	1998.9	1973.8	1973.8
45°	6898.2	4886.8	2109.4	2001.4	1993.9	1991.4	1961.2	1943.7	1933.6	1936.1	1958.7
47.5°	7242.2	4952.0	2031.5	1953.7	1958.7	1921.1	1913.5	1890.9	1901.0	1916.0	1918.5
50°	7485.8	5090.2	1971.3	1898.5	1916.0	1890.9	1845.7	1835.7	1835.7	1860.8	1855.8
52.5°	7656.6	5283.5	1913.5	1838.2	1845.7	1825.6	1810.6	1788.0	1772.9	1808.0	1825.6
55°	8178.9	5605.0	1898.5	1788.0	1785.4	1765.4	1737.7	1715.1	1707.6	1712.6	1747.8
57.5°	8128.7	5504.5	1850.7	1700.1	1695.0	1667.4	1639.8	1632.3	1629.8	1634.8	1644.8
60°	6599.4	4065.6	1652.4	1599.6	1592.1	1587.1	1559.4	1529.3	1514.2	1529.3	1516.8
62.5°	4366.9	2722.1	1456.5	1479.1	1484.1	1471.6	1426.4	1396.2	1401.2	1418.8	1391.2
65°	2144.5	1599.6	1320.9	1381.1	1386.2	1351.0	1308.3	1273.2	1255.6	1270.7	1258.1
67.5°	1225.5	1222.9	1210.4	1273.2	1270.7	1235.5	1167.7	1137.6	1107.4	1112.5	1104.9
70°	1039.6	1059.7	1084.8	1122.5	1120.0	1079.8	999.4	976.8	934.2	929.1	916.6
72.5°	818.6	853.8	909.0	936.7	914.1	863.8	811.1	773.4	735.8	713.2	720.7
75°	607.7	657.9	688.1	705.6	670.5	642.9	600.2	555.0	509.8	489.7	482.1
77.5°	442.0	457.0	484.7	497.2	474.6	447.0	421.9	376.7	334.0	306.4	298.8
80°	308.9	318.9	339.0	339.0	339.0	326.5	293.8	248.6	221.0	195.9	190.8
82.5°	216.0	226.0	246.1	236.1	233.5	218.5	198.4	163.2	133.1	115.5	110.5
85°	75.3	82.9	100.4	120.5	128.1	125.6	113.0	90.4	70.3	57.8	52.7
87.5°	17.6	17.6	20.1	17.6	17.6	20.1	17.6	17.6	17.6	12.6	10.0
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)