

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: P528696

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528696  
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-SA3D-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA 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: 20839 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

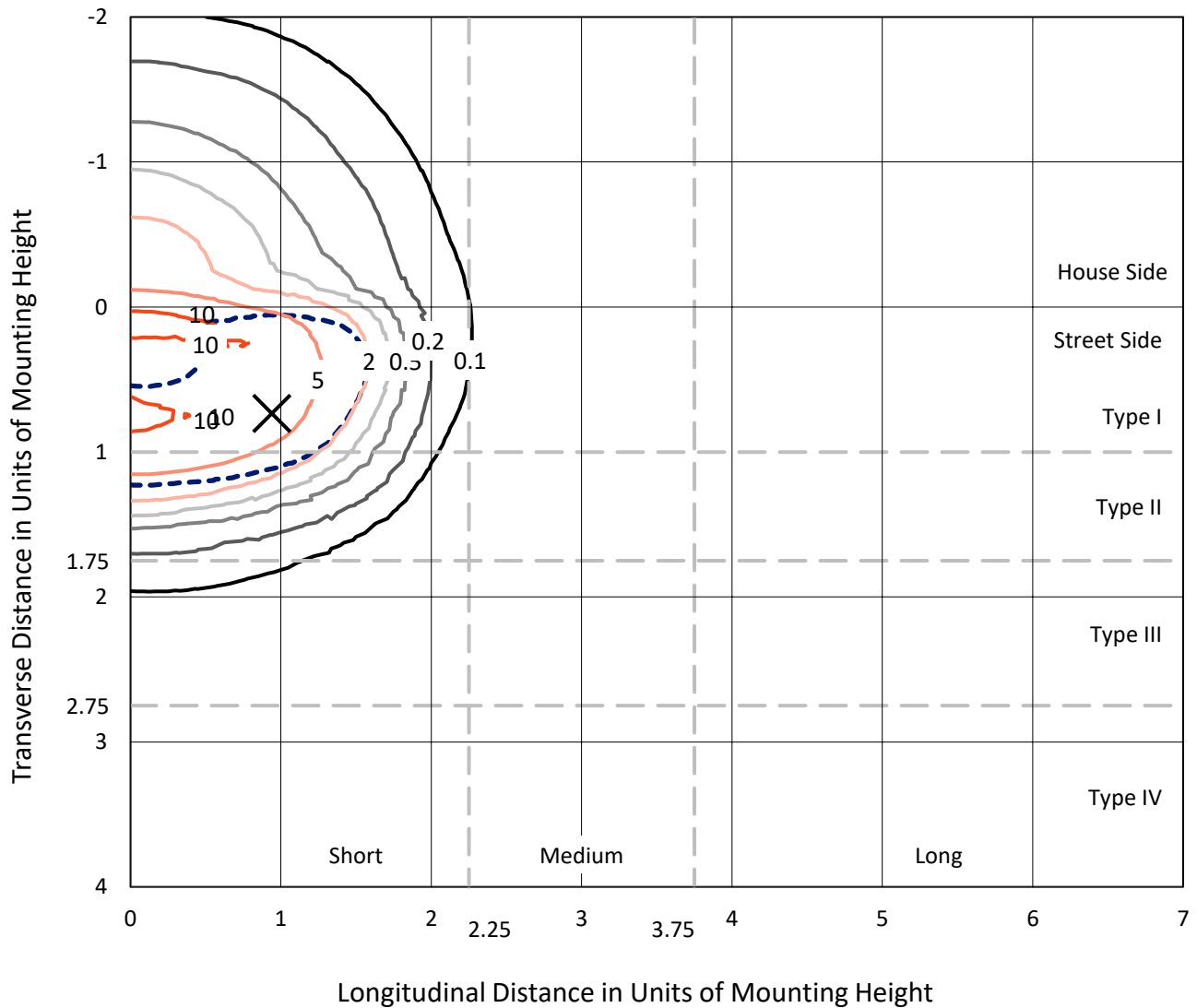
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

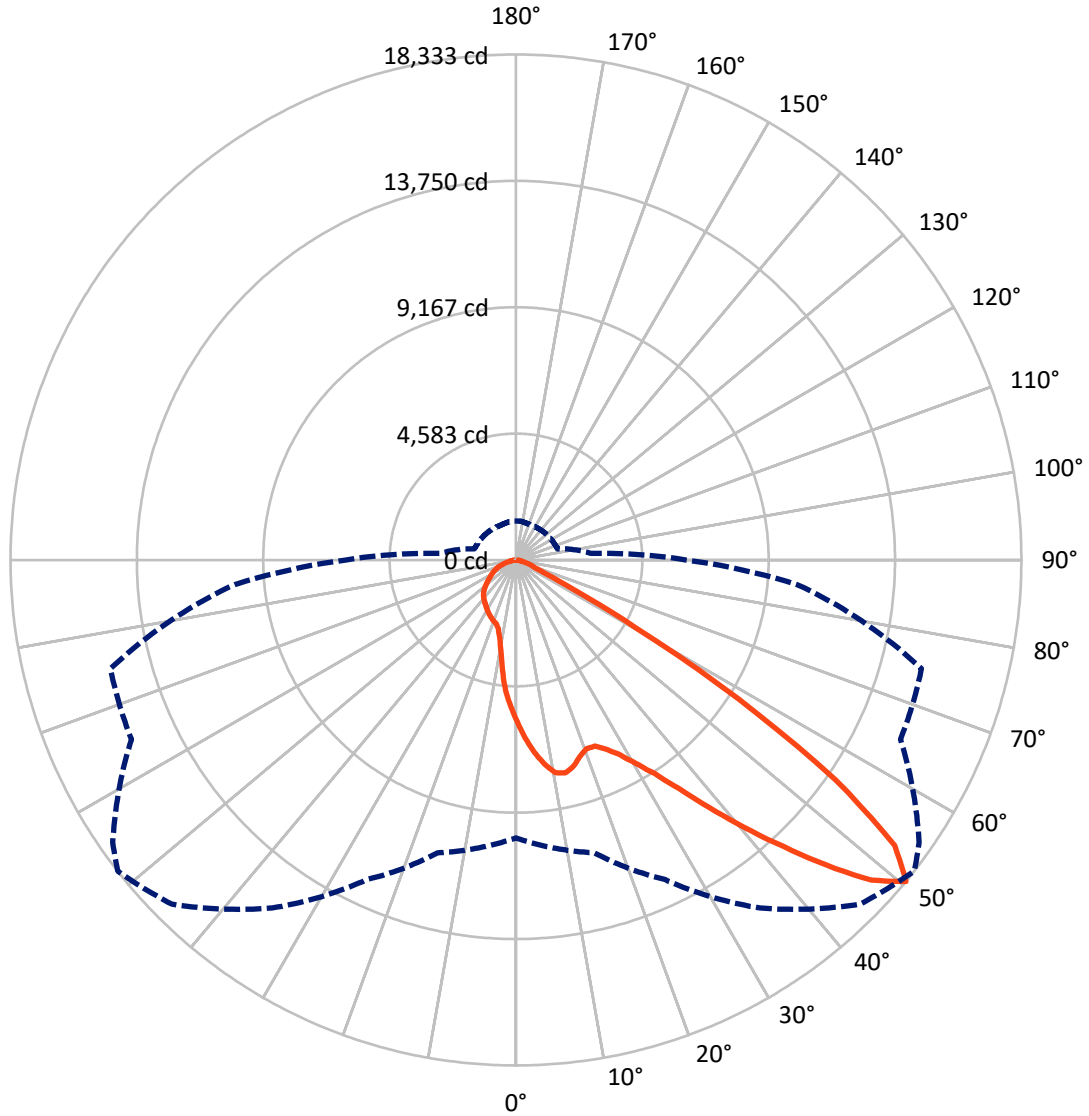
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	3917.2	0.0	3917.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16921.8	0.0	16921.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20839.0	0.0	20839.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.4	2.6
10°-20°	1451.1	7.0
20°-30°	2444.4	11.7
30°-40°	4101.9	19.7
40°-50°	6274.9	30.1
50°-60°	4574.9	22.0
60°-70°	1018.1	4.9
70°-80°	367.2	1.8
80°-90°	65.0	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°	20839.0	100.0
0°-180°	20839.0	100.0

**Coefficient of Utilization**



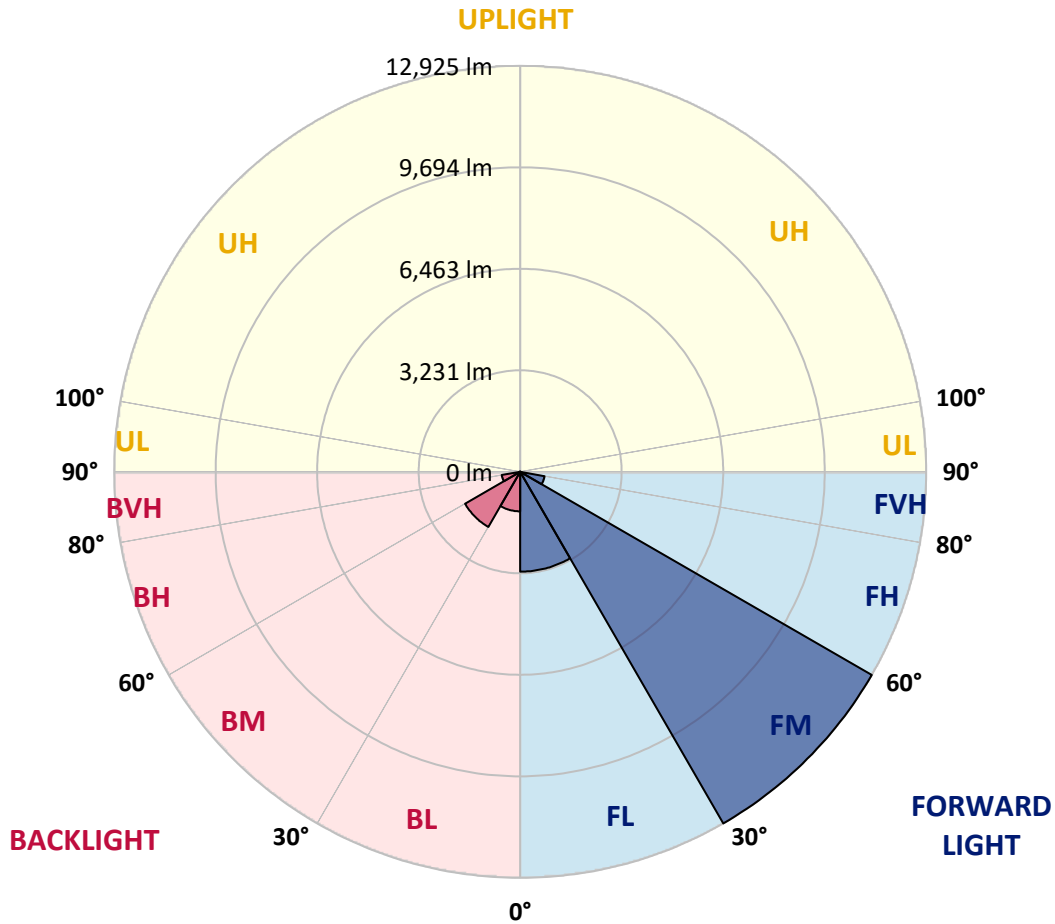
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3178.7	15.3			
FM (30°-60°)	12925.4	62.0			
FH (60°-80°)	788.6	3.8			G1/1800
FVH (80°-90°)	29.1	0.1			G1/100
BL (0°-30°)	1258.3	6.0	B3/2500		
BM (30°-60°)	2026.3	9.7	B2/2500		
BH (60°-80°)	596.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	35.9	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°	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2
2.5°	6916.4	6783.3	6798.4	6702.9	6600.0	6569.8	6464.3	6363.9	6288.5	6127.8	5979.6
5°	7559.3	7519.1	7458.9	7383.5	7305.7	7114.8	7006.8	6881.2	6605.0	6356.4	6110.2
7.5°	7652.2	7644.7	7677.4	7677.4	7705.0	7632.1	7479.0	7391.1	7097.2	6692.9	6235.8
10°	6999.3	7021.9	7180.1	7386.0	7672.3	7870.7	7845.6	7823.0	7501.6	6949.0	6384.0
12.5°	6479.4	6429.2	6522.1	6697.9	7127.4	7607.0	7931.0	7933.5	7850.6	7358.4	6492.0
15°	6185.6	6220.7	6245.9	6328.7	6652.7	7207.7	7777.8	7946.1	8310.2	7647.2	6662.7
17.5°	6373.9	6255.9	6250.9	6271.0	6436.7	6853.6	7494.0	7782.8	8561.4	8018.9	6873.7
20°	6620.1	6617.5	6547.2	6522.1	6519.6	6891.3	7308.2	7700.0	8694.5	8501.1	7087.2
22.5°	7052.0	7052.0	6936.5	6881.2	6763.2	7067.1	7333.3	7599.5	8915.5	8832.6	7190.1
25°	7775.3	7657.3	7458.9	7323.2	7255.4	7363.4	7599.5	7838.1	9108.9	9184.2	7403.6
27.5°	8443.3	8257.5	8159.5	7926.0	7835.6	7772.8	7988.8	8229.9	9334.9	9731.7	7519.1
30°	9201.8	9169.1	8993.3	8692.0	8468.4	8352.9	8551.3	8789.9	9749.3	10291.7	7785.3
32.5°	10557.9	10261.6	10023.0	9653.8	9289.7	9043.6	9239.4	9397.7	10437.4	10876.9	8076.7
35°	12022.1	11926.6	11514.8	10849.3	10291.7	10070.7	10186.2	10304.3	11238.5	11770.9	8566.4
37.5°	13461.1	13330.5	12991.5	12431.4	11753.4	11303.8	11386.7	11524.8	12137.6	12976.4	9164.1
40°	14495.8	14335.1	14164.3	14081.4	13408.4	12793.1	12745.4	12780.5	13353.1	14106.5	9827.1
42.5°	14571.2	14769.6	14822.3	15156.3	14998.1	14493.3	14199.5	14207.0	14513.4	15224.1	10497.7
45°	14412.9	14229.6	14618.9	15530.5	16052.9	16289.0	15794.2	15731.4	15231.7	15872.1	10831.7
47.5°	12752.9	12803.1	13461.1	14902.7	16412.0	17466.8	17351.3	17142.8	15615.9	15849.5	10778.9
50°	10080.8	10384.6	10994.9	12790.6	15407.4	17652.6	18333.2	17851.0	15387.4	15226.6	10241.5
52.5°	6713.0	6838.5	7240.4	9558.4	12388.7	15779.1	17203.1	17313.6	15176.4	14410.4	9560.9
55°	2988.6	2978.5	3543.6	4992.7	7772.8	12007.0	14056.3	14729.4	14365.2	13579.1	8897.9
57.5°	1265.7	1308.4	1539.5	2157.3	3822.4	7245.4	9523.2	10113.4	11047.7	11150.6	6826.0
60°	856.4	861.4	924.2	1079.9	1599.8	3402.9	4995.2	5703.4	6371.4	6326.2	3621.4
62.5°	673.1	690.6	738.4	801.1	949.3	1544.5	2235.1	2629.4	2672.1	2247.7	1373.7
65°	575.1	577.6	625.3	678.1	743.4	899.1	1077.4	1097.5	1110.0	1069.9	1009.6
67.5°	474.7	479.7	517.3	577.6	637.9	688.1	738.4	763.5	821.2	934.2	919.2
70°	376.7	384.2	416.9	467.1	522.4	552.5	615.3	637.9	690.6	778.5	813.7
72.5°	286.3	288.8	316.4	351.6	401.8	432.0	484.7	509.8	545.0	620.3	653.0
75°	205.9	213.5	233.6	251.1	258.7	278.8	329.0	356.6	406.8	439.5	442.0
77.5°	108.0	113.0	118.0	118.0	143.1	180.8	213.5	228.5	263.7	288.8	276.3
80°	42.7	45.2	57.8	77.9	100.5	130.6	153.2	160.7	190.9	205.9	213.5
82.5°	25.1	27.6	37.7	55.3	72.8	92.9	110.5	118.0	138.1	155.7	160.7
85°	12.6	15.1	22.6	35.2	47.7	57.8	55.3	52.7	52.7	50.2	52.7
87.5°	5.0	5.0	7.5	7.5	7.5	10.0	12.6	12.6	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°	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2	5874.2
2.5°	5881.7	5781.2	5688.3	5517.5	5331.7	5279.0	5063.0	4985.1	4929.9	4864.6	4844.5
5°	5911.8	5778.7	5479.9	5135.8	4862.1	4510.5	4279.4	4030.8	3850.0	3804.8	3792.2
7.5°	5974.6	5746.1	5231.2	4711.4	4151.3	3674.2	3310.0	3114.1	2940.9	2930.8	2913.2
10°	6044.9	5648.1	4960.0	4143.8	3428.1	2986.1	2767.6	2682.2	2639.5	2629.4	2624.4
12.5°	6102.7	5628.1	4656.1	3591.3	2915.7	2649.5	2584.2	2576.7	2594.3	2599.3	2609.3
15°	6127.8	5547.7	4289.5	3096.6	2596.8	2498.8	2526.5	2556.6	2569.2	2601.8	2576.7
17.5°	6175.5	5444.7	3837.4	2704.8	2418.5	2436.1	2483.8	2518.9	2539.0	2561.6	2529.0
20°	6200.7	5351.8	3413.0	2471.2	2355.7	2388.3	2453.6	2481.3	2506.4	2516.4	2478.8
22.5°	6178.0	5160.9	3038.8	2282.9	2295.4	2338.1	2395.9	2426.0	2410.9	2370.8	2348.2
25°	6117.8	4892.2	2649.5	2162.3	2210.0	2285.4	2330.6	2308.0	2280.4	2257.8	2250.2
27.5°	6115.3	4563.2	2368.3	2051.8	2137.2	2240.2	2225.1	2205.0	2217.6	2200.0	2179.9
30°	6127.8	4244.3	2137.2	1989.0	2084.5	2134.7	2152.3	2132.2	2147.2	2114.6	2124.6
32.5°	6062.5	3932.9	1986.5	1916.2	2021.7	2019.2	2076.9	2092.0	2056.8	1989.0	1999.1
35°	6090.1	3681.7	1858.4	1883.6	1951.4	1951.4	1996.6	1979.0	1886.1	1845.9	1855.9
37.5°	6281.0	3435.6	1795.7	1838.3	1883.6	1903.6	1888.6	1813.2	1790.6	1790.6	1795.7
40°	6461.8	3224.6	1758.0	1828.3	1820.8	1833.3	1722.8	1730.4	1730.4	1732.9	1720.3
42.5°	6622.6	3081.5	1727.8	1768.0	1780.6	1715.3	1647.5	1639.9	1657.5	1655.0	1645.0
45°	6680.3	2963.5	1685.2	1700.2	1710.3	1602.3	1569.6	1554.6	1574.6	1582.2	1592.2
47.5°	6459.3	2865.5	1637.4	1607.3	1587.2	1516.9	1474.2	1446.6	1471.7	1514.4	1524.4
50°	6175.5	2737.4	1562.1	1504.3	1461.6	1431.5	1401.4	1373.7	1391.3	1421.5	1413.9
52.5°	5756.1	2536.5	1466.7	1406.4	1333.6	1341.1	1313.5	1298.4	1308.4	1308.4	1300.9
55°	5158.4	2084.5	1305.9	1263.2	1203.0	1223.1	1228.1	1208.0	1187.9	1205.5	1190.4
57.5°	3521.0	1471.7	1165.3	1165.3	1105.0	1132.6	1130.1	1082.4	1034.7	1039.7	1029.7
60°	2036.7	1172.8	1074.9	1064.8	1002.0	1024.7	1029.7	997.0	924.2	929.2	919.2
62.5°	1157.8	1002.0	939.3	924.2	911.6	931.7	931.7	889.0	826.3	831.3	821.2
65°	984.5	929.2	838.8	836.3	831.3	836.3	816.2	771.0	715.7	693.1	695.7
67.5°	894.1	858.9	771.0	748.4	733.3	730.8	693.1	650.5	625.3	605.2	602.7
70°	783.6	755.9	690.6	660.5	645.4	610.3	572.6	545.0	509.8	499.8	509.8
72.5°	620.3	617.8	592.7	560.0	527.4	499.8	467.1	429.4	396.8	389.3	371.7
75°	429.4	434.5	439.5	434.5	406.8	371.7	334.0	303.9	263.7	241.1	236.1
77.5°	281.3	288.8	296.3	286.3	268.7	236.1	211.0	173.3	143.1	125.6	123.1
80°	205.9	216.0	221.0	213.5	193.4	168.3	140.6	110.5	87.9	72.8	72.8
82.5°	158.2	168.3	173.3	160.7	140.6	120.5	100.5	77.9	60.3	47.7	45.2
85°	55.3	52.7	62.8	65.3	77.9	72.8	60.3	45.2	35.2	25.1	22.6
87.5°	15.1	15.1	17.6	17.6	15.1	12.6	12.6	12.6	10.0	7.5	7.5
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)