

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: P528670

Luminaire Tested: **GALN-SA3D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528670
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-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 19412 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

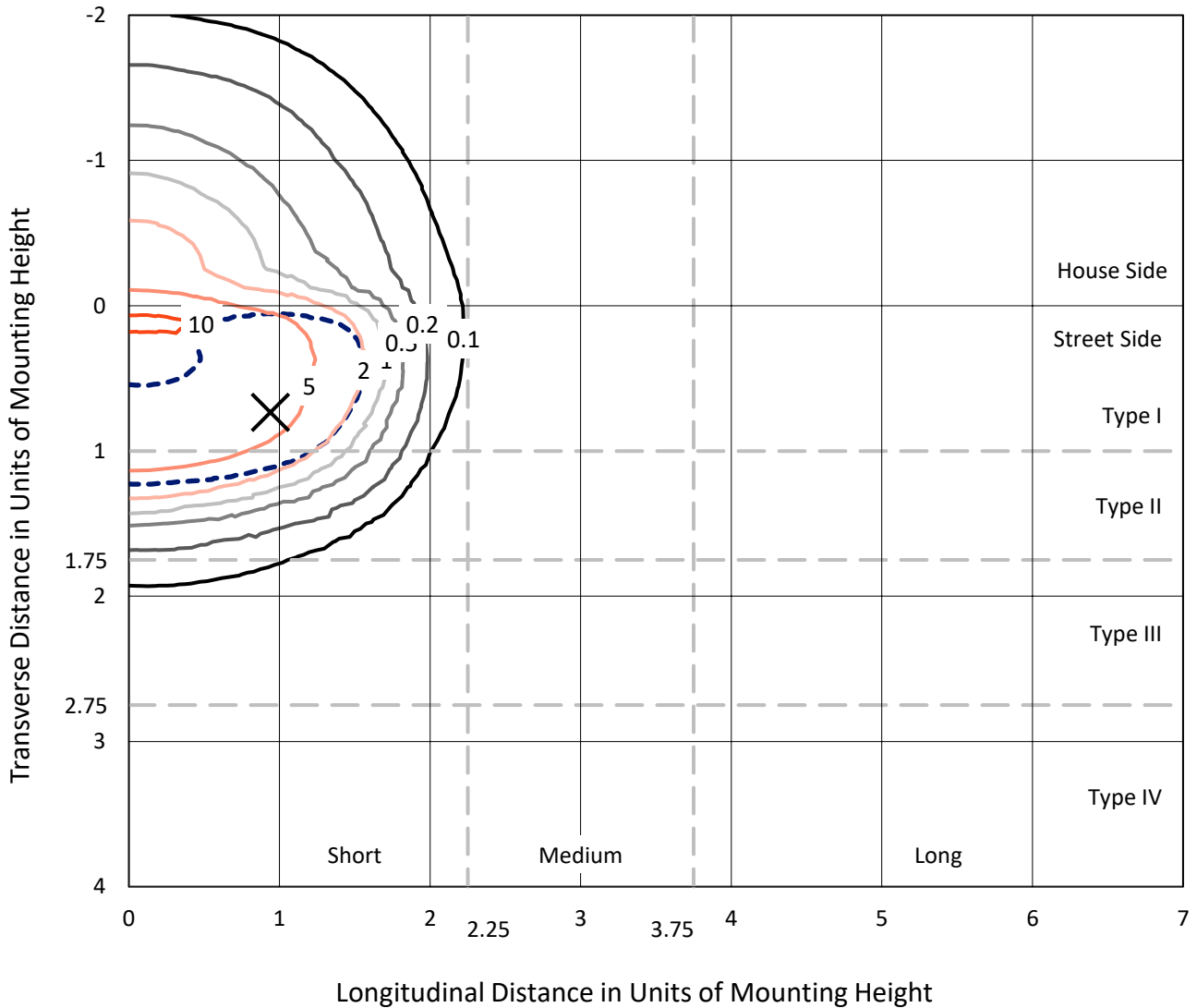
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

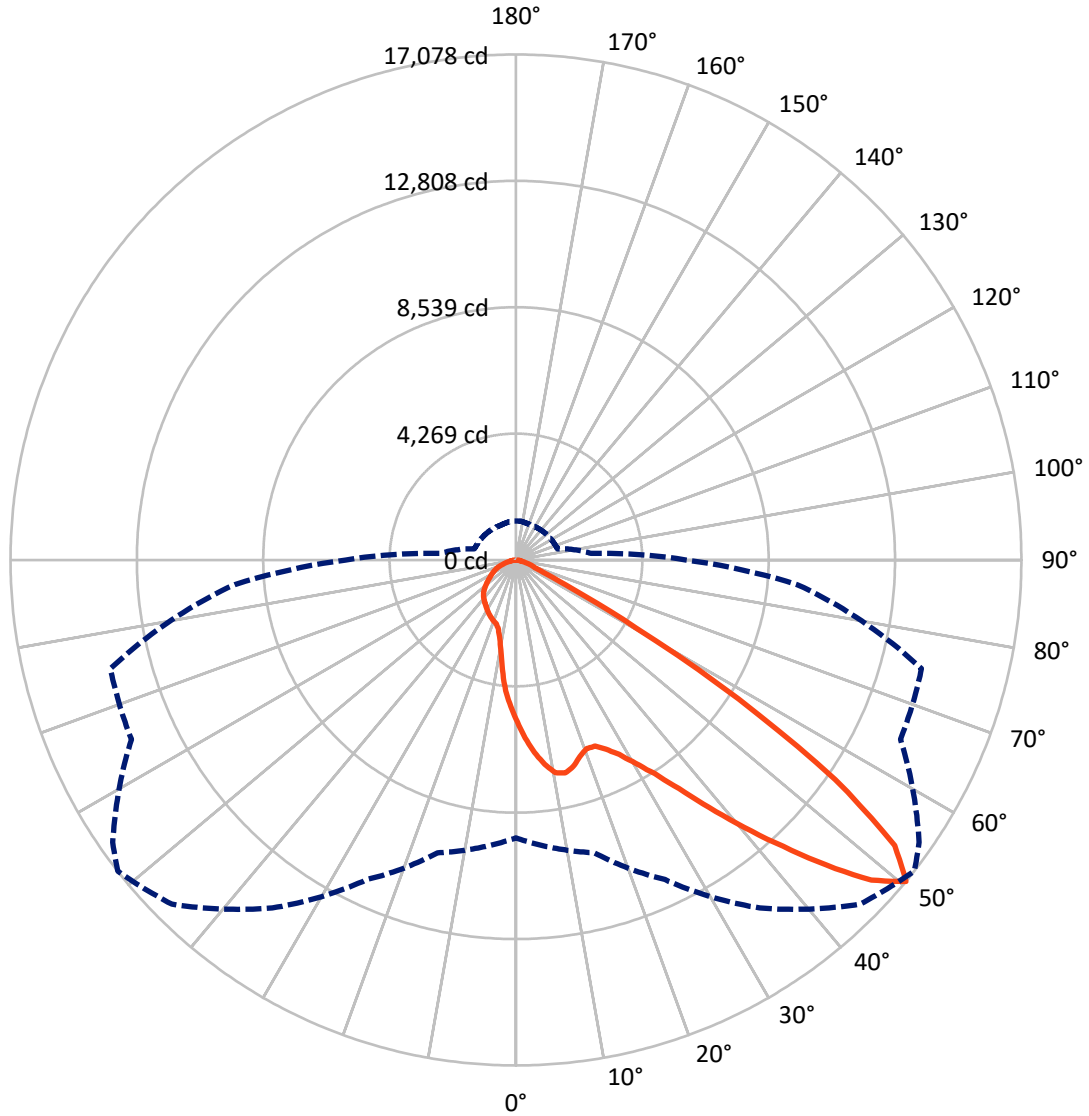
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	3649.0	0.0	3649.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15763.0	0.0	15763.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	19412.0	0.0	19412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.3	2.6
10°-20°	1351.8	7.0
20°-30°	2277.0	11.7
30°-40°	3821.0	19.7
40°-50°	5845.2	30.1
50°-60°	4261.6	22.0
60°-70°	948.4	4.9
70°-80°	342.1	1.8
80°-90°	60.5	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°	19412.0	100.0
0°-180°	19412.0	100.0

Coefficient of Utilization



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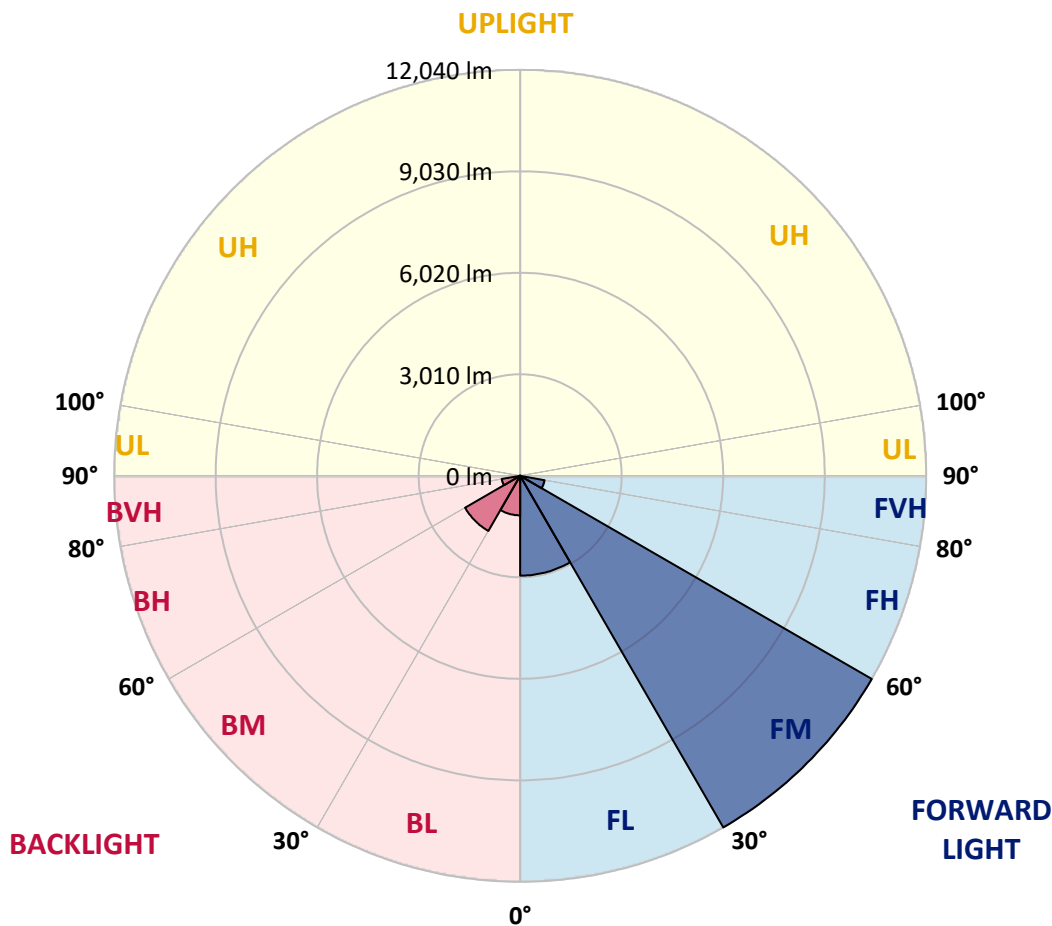
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2961.0	15.3			
FM (30°-60°)	12040.3	62.0			
FH (60°-80°)	734.6	3.8			G1/1800
FVH (80°-90°)	27.1	0.1			G1/100
BL (0°-30°)	1172.1	6.0	B3/2500		
BM (30°-60°)	1887.5	9.7	B2/2500		
BH (60°-80°)	555.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	33.4	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°	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9
2.5°	6442.8	6318.8	6332.8	6243.9	6148.0	6119.9	6021.7	5928.1	5857.9	5708.2	5570.2
5°	7041.7	7004.2	6948.1	6877.9	6805.4	6627.6	6527.0	6410.0	6152.7	5921.1	5691.8
7.5°	7128.2	7121.2	7151.6	7151.6	7177.4	7109.5	6966.8	6884.9	6611.2	6234.6	5808.8
10°	6520.0	6541.0	6688.4	6880.3	7147.0	7331.8	7308.4	7287.3	6987.9	6473.2	5946.8
12.5°	6035.7	5988.9	6075.5	6239.3	6639.3	7086.1	7387.9	7390.3	7313.1	6854.5	6047.4
15°	5762.0	5794.8	5818.2	5895.4	6197.1	6714.2	7245.2	7401.9	7741.2	7123.6	6206.5
17.5°	5937.5	5827.5	5822.8	5841.6	5996.0	6384.3	6980.9	7249.9	7975.1	7469.8	6403.0
20°	6166.7	6164.4	6098.9	6075.5	6073.2	6419.4	6807.7	7172.7	8099.1	7919.0	6601.9
22.5°	6569.1	6569.1	6461.5	6410.0	6300.1	6583.1	6831.1	7079.1	8305.0	8227.8	6697.8
25°	7242.9	7132.9	6948.1	6821.8	6758.6	6859.2	7079.1	7301.4	8485.1	8555.3	6896.6
27.5°	7865.2	7692.0	7600.8	7383.2	7299.0	7240.5	7441.7	7666.3	8695.7	9065.3	7004.2
30°	8571.7	8541.2	8377.5	8096.8	7888.5	7780.9	7965.8	8188.0	9081.7	9587.0	7252.2
32.5°	9835.0	9558.9	9336.7	8992.8	8653.5	8424.3	8606.8	8754.1	9722.7	10132.1	7523.6
35°	11198.8	11109.9	10726.3	10106.3	9587.0	9381.1	9488.7	9598.7	10468.9	10964.9	7979.8
37.5°	12539.3	12417.7	12101.9	11580.2	10948.5	10529.8	10607.0	10735.6	11306.5	12087.8	8536.6
40°	13503.2	13353.5	13194.4	13117.2	12490.2	11917.0	11872.6	11905.3	12438.7	13140.6	9154.2
42.5°	13573.4	13758.2	13807.3	14118.4	13971.1	13500.8	13227.1	13234.1	13519.6	14181.6	9778.8
45°	13426.0	13255.2	13617.8	14467.0	14953.6	15173.5	14712.7	14654.2	14188.6	14785.2	10090.0
47.5°	11879.6	11926.4	12539.3	13882.2	15288.2	16270.7	16163.1	15968.9	14546.6	14764.1	10040.8
50°	9390.5	9673.5	10242.0	11914.7	14352.4	16443.8	17077.8	16628.7	14333.7	14183.9	9540.2
52.5°	6253.3	6370.3	6744.6	8903.9	11540.4	14698.6	16025.1	16128.0	14137.2	13423.6	8906.2
55°	2783.9	2774.6	3300.9	4650.8	7240.5	11184.8	13093.8	13720.7	13381.5	12649.3	8288.6
57.5°	1179.1	1218.8	1434.1	2009.6	3560.6	6749.2	8871.1	9420.9	10291.1	10387.1	6358.6
60°	797.7	802.4	860.9	1006.0	1490.2	3169.9	4653.1	5312.8	5935.1	5893.0	3373.5
62.5°	627.0	643.3	687.8	746.3	884.3	1438.7	2082.1	2449.4	2489.2	2093.8	1279.7
65°	535.7	538.1	582.5	631.6	692.5	837.5	1003.6	1022.3	1034.0	996.6	940.4
67.5°	442.2	446.8	481.9	538.1	594.2	641.0	687.8	711.2	765.0	870.3	856.2
70°	350.9	357.9	388.3	435.1	486.6	514.7	573.2	594.2	643.3	725.2	758.0
72.5°	266.7	269.0	294.8	327.5	374.3	402.4	451.5	474.9	507.7	577.8	608.3
75°	191.8	198.9	217.6	233.9	241.0	259.7	306.5	332.2	379.0	409.4	411.7
77.5°	100.6	105.3	110.0	110.0	133.3	168.4	198.9	212.9	245.6	269.0	257.3
80°	39.8	42.1	53.8	72.5	93.6	121.7	142.7	149.7	177.8	191.8	198.9
82.5°	23.4	25.7	35.1	51.5	67.8	86.6	102.9	110.0	128.7	145.0	149.7
85°	11.7	14.0	21.1	32.8	44.4	53.8	51.5	49.1	49.1	46.8	49.1
87.5°	4.7	4.7	7.0	7.0	7.0	9.4	11.7	11.7	11.7	14.0	14.0
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°	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9
2.5°	5478.9	5385.4	5298.8	5139.7	4966.6	4917.5	4716.3	4643.8	4592.3	4531.5	4512.8
5°	5507.0	5383.0	5104.6	4784.1	4529.1	4201.6	3986.4	3754.8	3586.3	3544.2	3532.5
7.5°	5565.5	5352.6	4873.0	4388.8	3867.1	3422.6	3083.4	2900.9	2739.5	2730.1	2713.7
10°	5631.0	5261.4	4620.4	3860.1	3193.3	2781.6	2578.0	2498.5	2458.7	2449.4	2444.7
12.5°	5684.8	5242.7	4337.3	3345.4	2716.1	2468.1	2407.3	2400.3	2416.6	2421.3	2430.7
15°	5708.2	5167.8	3995.7	2884.5	2419.0	2327.7	2353.5	2381.5	2393.2	2423.6	2400.3
17.5°	5752.7	5071.9	3574.6	2519.6	2252.9	2269.2	2313.7	2346.4	2365.2	2386.2	2355.8
20°	5776.0	4985.3	3179.3	2302.0	2194.4	2224.8	2285.6	2311.4	2334.7	2344.1	2309.0
22.5°	5755.0	4807.5	2830.7	2126.5	2138.2	2178.0	2231.8	2259.9	2245.9	2208.4	2187.4
25°	5698.8	4557.2	2468.1	2014.2	2058.7	2128.9	2171.0	2149.9	2124.2	2103.1	2096.1
27.5°	5696.5	4250.7	2206.1	1911.3	1990.9	2086.8	2072.7	2054.0	2065.7	2049.3	2030.6
30°	5708.2	3953.6	1990.9	1852.8	1941.7	1988.5	2004.9	1986.2	2000.2	1969.8	1979.2
32.5°	5647.4	3663.5	1850.5	1785.0	1883.2	1880.9	1934.7	1948.7	1916.0	1852.8	1862.2
35°	5673.1	3429.6	1731.2	1754.6	1817.7	1817.7	1859.8	1843.5	1756.9	1719.5	1728.8
37.5°	5850.9	3200.3	1672.7	1712.5	1754.6	1773.3	1759.2	1689.1	1668.0	1668.0	1672.7
40°	6019.3	3003.8	1637.6	1703.1	1696.1	1707.8	1604.8	1611.9	1611.9	1614.2	1602.5
42.5°	6169.1	2870.5	1609.5	1647.0	1658.7	1597.8	1534.7	1527.6	1544.0	1541.7	1532.3
45°	6222.9	2760.5	1569.8	1583.8	1593.2	1492.6	1462.1	1448.1	1466.8	1473.8	1483.2
47.5°	6017.0	2669.3	1525.3	1497.2	1478.5	1413.0	1373.2	1347.5	1370.9	1410.7	1420.0
50°	5752.7	2550.0	1455.1	1401.3	1361.5	1333.5	1305.4	1279.7	1296.0	1324.1	1317.1
52.5°	5362.0	2362.8	1366.2	1310.1	1242.2	1249.3	1223.5	1209.5	1218.8	1218.8	1211.8
55°	4805.2	1941.7	1216.5	1176.7	1120.6	1139.3	1144.0	1125.3	1106.5	1122.9	1108.9
57.5°	3279.9	1370.9	1085.5	1085.5	1029.3	1055.1	1052.7	1008.3	963.8	968.5	959.2
60°	1897.3	1092.5	1001.3	991.9	933.4	954.5	959.2	928.8	860.9	865.6	856.2
62.5°	1078.5	933.4	874.9	860.9	849.2	867.9	867.9	828.2	769.7	774.4	765.0
65°	917.1	865.6	781.4	779.0	774.4	779.0	760.3	718.2	666.7	645.7	648.0
67.5°	832.8	800.1	718.2	697.1	683.1	680.8	645.7	605.9	582.5	563.8	561.5
70°	729.9	704.2	643.3	615.3	601.2	568.5	533.4	507.7	474.9	465.5	474.9
72.5°	577.8	575.5	552.1	521.7	491.3	465.5	435.1	400.0	369.6	362.6	346.2
75°	400.0	404.7	409.4	404.7	379.0	346.2	311.1	283.1	245.6	224.6	219.9
77.5°	262.0	269.0	276.1	266.7	250.3	219.9	196.5	161.4	133.3	117.0	114.6
80°	191.8	201.2	205.9	198.9	180.1	156.7	131.0	102.9	81.9	67.8	67.8
82.5°	147.4	156.7	161.4	149.7	131.0	112.3	93.6	72.5	56.1	44.4	42.1
85°	51.5	49.1	58.5	60.8	72.5	67.8	56.1	42.1	32.8	23.4	21.1
87.5°	14.0	14.0	16.4	16.4	14.0	11.7	11.7	11.7	9.4	7.0	7.0
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)