

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: P528684

Luminaire Tested: **GALN-SA3D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18904 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

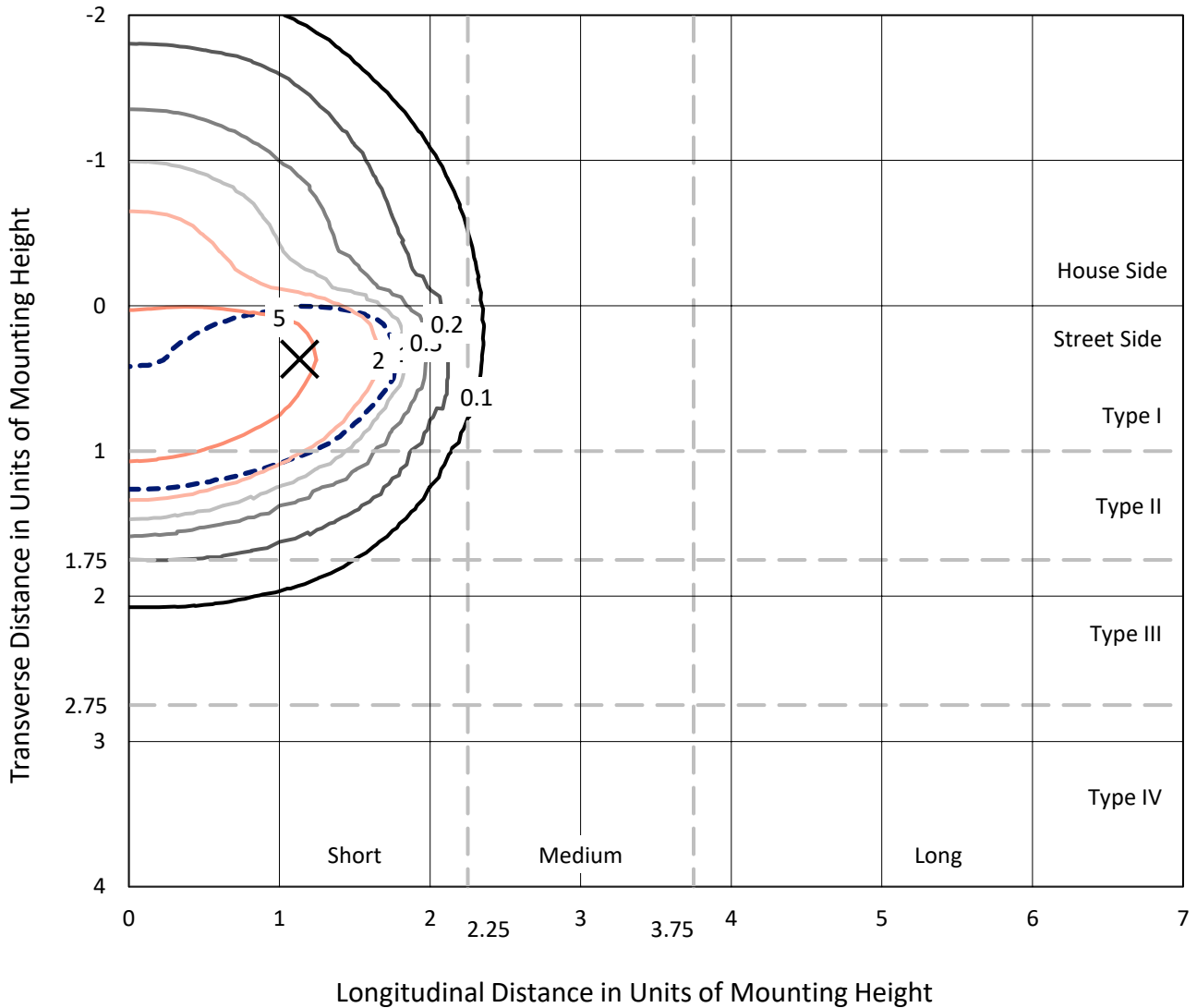
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

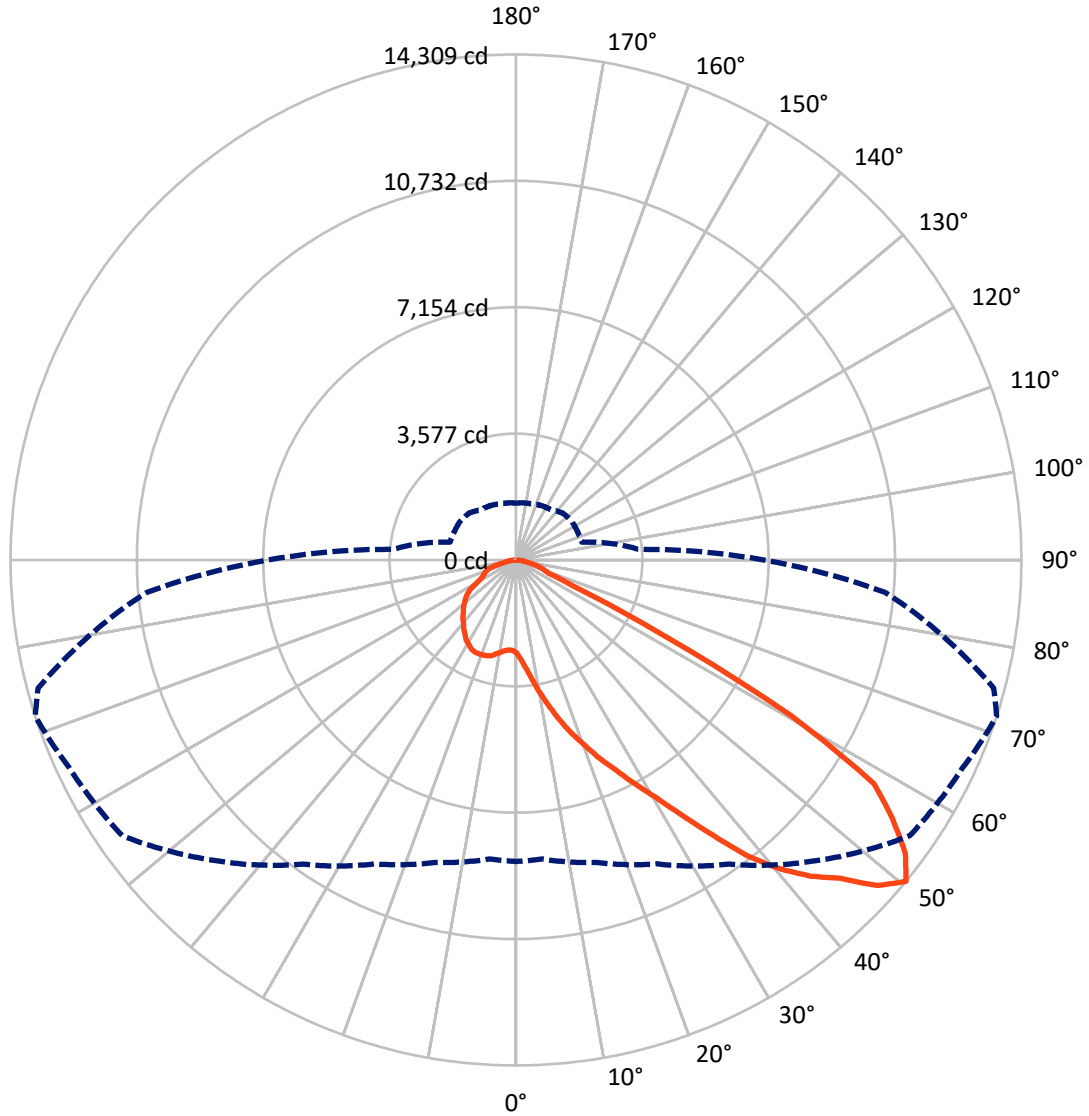
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4331.0	0.0	4331.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14573.0	0.0	14573.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	18904.0	0.0	18904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	1.6
10°-20°	1157.2	6.1
20°-30°	2243.7	11.9
30°-40°	3717.0	19.7
40°-50°	5200.9	27.5
50°-60°	4387.6	23.2
60°-70°	1337.3	7.1
70°-80°	469.2	2.5
80°-90°	81.6	0.4
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°	18904.0	100.0
0°-180°	18904.0	100.0

Coefficient of Utilization



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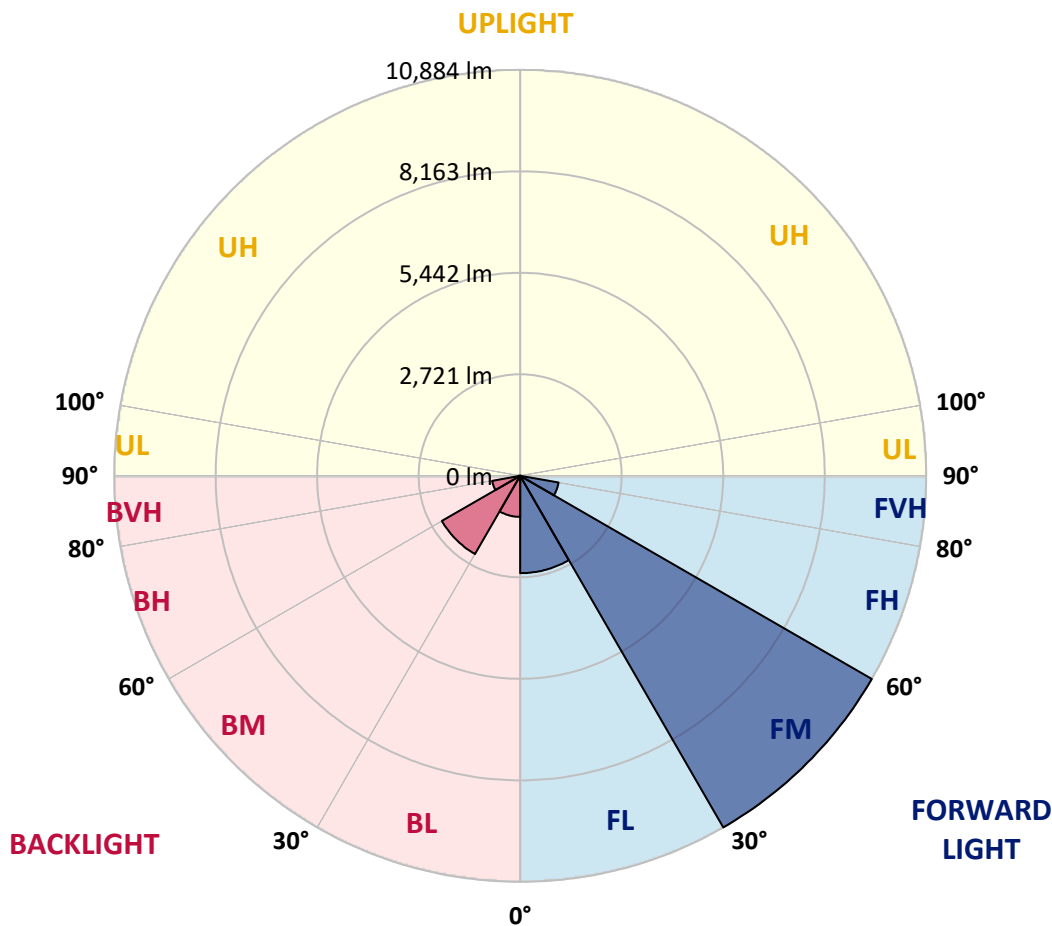
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.4	13.8			
FM (30°-60°)	10883.5	57.6			
FH (60°-80°)	1043.5	5.5			G1/1800
FVH (80°-90°)	36.5	0.2			G1/100
BL (0°-30°)	1101.0	5.8	B3/2500		
BM (30°-60°)	2422.0	12.8	B2/2500		
BH (60°-80°)	763.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	45.0	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°	55°	65°	72°	75°	85°
0°	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6
2.5°	3384.8	3363.8	3300.6	3279.6	3204.7	3069.0	3022.2	2884.2	2825.8	2771.9	2708.8
5°	4280.7	4182.5	4175.5	4056.2	3883.1	3782.5	3483.1	3281.9	3097.1	3003.5	2830.4
7.5°	4851.5	4853.8	4853.8	4755.6	4617.6	4362.6	4093.6	3731.0	3452.7	3314.6	3019.9
10°	5394.2	5347.4	5321.7	5312.3	5218.8	4970.8	4683.1	4233.9	3852.7	3691.3	3162.6
12.5°	5777.8	5738.1	5796.5	5766.1	5698.3	5536.9	5265.5	4753.3	4276.1	4058.5	3391.8
15°	5960.3	5988.3	6035.1	6119.3	6088.9	6028.1	5728.7	5286.6	4732.2	4486.6	3595.3
17.5°	6241.0	6163.8	6219.9	6325.2	6409.4	6381.3	6210.6	5672.6	5183.7	4881.9	3869.0
20°	6437.5	6393.0	6421.1	6542.7	6605.9	6765.0	6676.1	6177.8	5616.4	5298.3	4191.8
22.5°	6998.9	6933.4	6842.2	6860.9	6884.3	6996.5	7017.6	6732.2	6119.3	5782.5	4498.3
25°	7691.3	7630.5	7522.9	7412.9	7345.1	7324.0	7396.5	7167.3	6601.2	6252.7	4828.1
27.5°	8453.9	8350.9	8283.1	8056.2	7873.7	7845.7	7810.6	7686.6	7172.0	6795.4	5200.0
30°	9195.4	9113.5	9022.3	8659.7	8470.2	8439.8	8266.7	8301.8	7791.9	7373.2	5621.1
32.5°	9756.8	9763.8	9555.6	9281.9	9104.2	8942.8	8879.6	8980.2	8587.2	8250.4	6091.3
35°	10210.6	10231.7	10032.8	9784.9	9593.1	9705.3	9677.3	9724.0	9536.9	9125.2	6638.6
37.5°	10652.7	10547.4	10334.6	10215.3	10114.7	10299.5	10538.1	10577.9	10612.9	10128.7	7274.9
40°	10725.2	10734.6	10610.6	10694.8	10568.5	10846.9	11401.3	11349.8	11492.5	11069.1	7965.0
42.5°	10622.3	10643.4	10692.5	10811.8	11115.9	11450.4	12273.8	12063.2	12236.3	11859.7	8636.3
45°	10453.9	10367.3	10428.1	10882.0	11408.3	12152.1	13071.4	12907.7	12851.6	12535.8	9436.3
47.5°	9649.2	9738.1	9927.6	10486.6	11277.3	12273.8	13637.5	13600.1	13768.5	13546.3	10163.8
50°	8533.4	8498.3	8863.2	9492.5	10512.4	12035.2	13607.1	13946.3	14308.9	14000.1	10489.0
52.5°	6390.7	6577.8	6891.3	7672.6	9127.6	10734.6	12942.8	13508.9	13803.6	13738.1	10227.0
55°	4039.8	4095.9	4285.4	5214.1	6524.0	8615.3	11094.8	12407.1	12933.4	13179.0	9986.0
57.5°	1962.6	1857.3	2088.9	2835.1	3768.4	5794.2	8556.8	10807.1	11951.0	12395.4	9462.1
60°	1024.6	1064.3	1155.6	1422.2	1948.6	3008.2	5333.4	7202.4	8949.8	9632.8	7172.0
62.5°	849.1	863.2	924.0	1057.3	1295.9	1731.0	2722.8	3511.1	4563.8	5179.0	4079.6
65°	720.5	727.5	793.0	881.9	1033.9	1218.7	1401.2	1466.7	1775.5	1822.2	1450.3
67.5°	601.2	608.2	678.4	762.6	860.8	909.9	956.7	952.1	987.1	973.1	970.8
70°	463.2	470.2	542.7	631.6	680.7	652.6	797.7	830.4	844.5	856.1	874.9
72.5°	334.5	348.5	404.7	467.8	442.1	507.6	657.3	706.4	725.2	732.2	755.6
75°	243.3	248.0	262.0	243.3	280.7	353.2	463.2	524.0	547.4	554.4	589.5
77.5°	107.6	109.9	112.3	140.4	180.1	219.9	276.0	325.1	357.9	367.3	376.6
80°	56.1	58.5	72.5	95.9	128.7	161.4	201.2	229.2	250.3	252.6	262.0
82.5°	35.1	37.4	51.5	67.8	91.2	119.3	147.4	170.8	187.1	189.5	191.8
85°	16.4	21.1	30.4	42.1	60.8	77.2	79.5	67.8	72.5	74.9	70.2
87.5°	4.7	7.0	9.4	7.0	9.4	9.4	11.7	14.0	14.0	14.0	16.4
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°	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6
2.5°	2673.7	2652.7	2570.8	2540.4	2460.8	2474.9	2432.8	2430.4	2421.1	2418.7	2416.4
5°	2739.2	2673.7	2575.5	2500.6	2456.2	2451.5	2421.1	2421.1	2430.4	2437.4	2421.1
7.5°	2846.8	2771.9	2605.9	2535.7	2495.9	2488.9	2467.9	2451.5	2472.5	2465.5	2446.8
10°	2970.8	2839.8	2664.3	2603.5	2538.0	2521.7	2521.7	2528.7	2493.6	2505.3	2486.6
12.5°	3108.8	2933.4	2739.2	2669.0	2591.8	2582.5	2577.8	2526.3	2545.0	2535.7	2488.9
15°	3284.2	3041.0	2835.1	2715.8	2650.3	2608.2	2547.4	2538.0	2526.3	2502.9	2481.9
17.5°	3473.7	3157.9	2879.6	2729.8	2631.6	2601.2	2554.4	2505.3	2470.2	2474.9	2458.5
20°	3635.1	3265.5	2895.9	2743.9	2617.6	2559.1	2486.6	2456.2	2418.7	2416.4	2414.1
22.5°	3826.9	3410.6	2919.3	2706.5	2575.5	2514.6	2465.5	2411.7	2386.0	2353.2	2369.6
25°	4056.2	3466.7	2924.0	2685.4	2545.0	2437.4	2411.7	2353.2	2343.9	2297.1	2306.4
27.5°	4222.3	3497.1	2886.6	2619.9	2474.9	2393.0	2346.2	2304.1	2287.7	2252.6	2243.3
30°	4444.5	3543.9	2807.0	2538.0	2404.7	2313.5	2285.4	2276.0	2229.3	2191.8	2187.2
32.5°	4697.1	3574.3	2755.6	2453.8	2332.2	2262.0	2276.0	2231.6	2173.1	2140.4	2131.0
35°	4898.3	3586.0	2626.9	2357.9	2283.1	2238.6	2222.2	2212.9	2128.7	2098.3	2074.9
37.5°	5204.7	3560.3	2519.3	2290.1	2229.3	2212.9	2198.8	2135.7	2039.8	1995.3	1962.6
40°	5562.6	3553.2	2381.3	2194.2	2177.8	2196.5	2154.4	2056.2	1922.8	1873.7	1850.3
42.5°	5906.5	3602.4	2294.8	2142.7	2121.7	2128.7	2070.2	1922.8	1857.3	1829.3	1791.8
45°	6481.9	3705.3	2152.1	2063.2	2053.8	2049.1	1979.0	1824.6	1787.1	1752.1	1745.0
47.5°	7001.2	3637.5	2060.8	1981.3	1990.7	1964.9	1815.2	1766.1	1724.0	1688.9	1677.2
50°	7031.6	3476.0	1932.2	1918.1	1920.5	1876.0	1733.3	1700.6	1646.8	1623.4	1607.0
52.5°	6872.6	3211.7	1812.9	1817.6	1824.6	1752.1	1632.8	1609.4	1564.9	1532.2	1522.8
55°	6425.8	2800.0	1695.9	1714.6	1733.3	1595.3	1557.9	1499.4	1464.3	1417.6	1419.9
57.5°	5660.9	2255.0	1532.2	1562.6	1602.4	1450.3	1422.2	1349.7	1298.3	1260.8	1256.1
60°	3794.2	1604.7	1286.6	1298.3	1387.1	1326.3	1324.0	1251.5	1181.3	1148.5	1129.8
62.5°	2238.6	1225.7	1111.1	1099.4	1097.1	1132.2	1190.7	1164.9	1073.7	1010.5	1029.2
65°	1171.9	1059.7	1033.9	994.2	970.8	961.4	1005.9	1017.6	956.7	888.9	884.2
67.5°	984.8	984.8	963.7	949.7	917.0	877.2	849.1	811.7	802.3	783.6	760.2
70°	895.9	919.3	912.3	879.5	851.5	807.0	734.5	673.7	615.2	594.2	608.2
72.5°	781.3	804.7	804.7	788.3	750.9	683.0	612.9	542.7	493.6	456.1	451.5
75°	601.2	612.9	640.9	622.2	573.1	531.0	458.5	386.0	339.2	304.1	297.1
77.5°	383.6	402.3	402.3	400.0	364.9	325.1	278.4	226.9	191.8	166.1	159.1
80°	255.0	266.7	276.0	266.7	243.3	212.9	177.8	142.7	117.0	95.9	91.2
82.5°	187.1	201.2	208.2	198.8	175.4	152.0	126.3	100.6	74.9	58.5	53.8
85°	72.5	74.9	84.2	100.6	98.2	95.9	77.2	56.1	42.1	30.4	28.1
87.5°	18.7	16.4	18.7	18.7	16.4	14.0	14.0	14.0	14.0	7.0	9.4
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)