

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: P530553

Luminaire Tested: **GALN-SA5D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21289 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

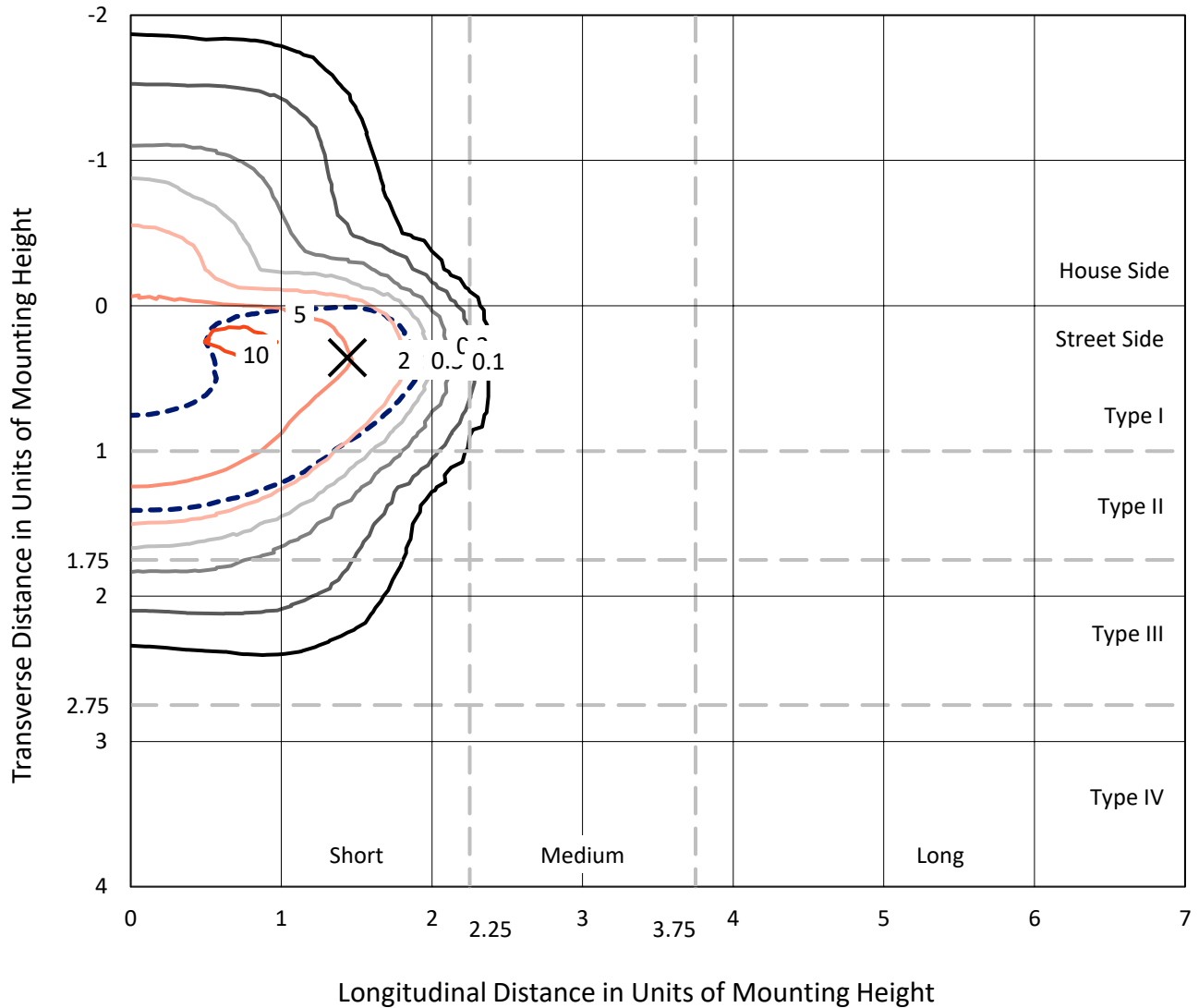
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530553
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Iso-Footcandle Lines of Horizontal Illumination

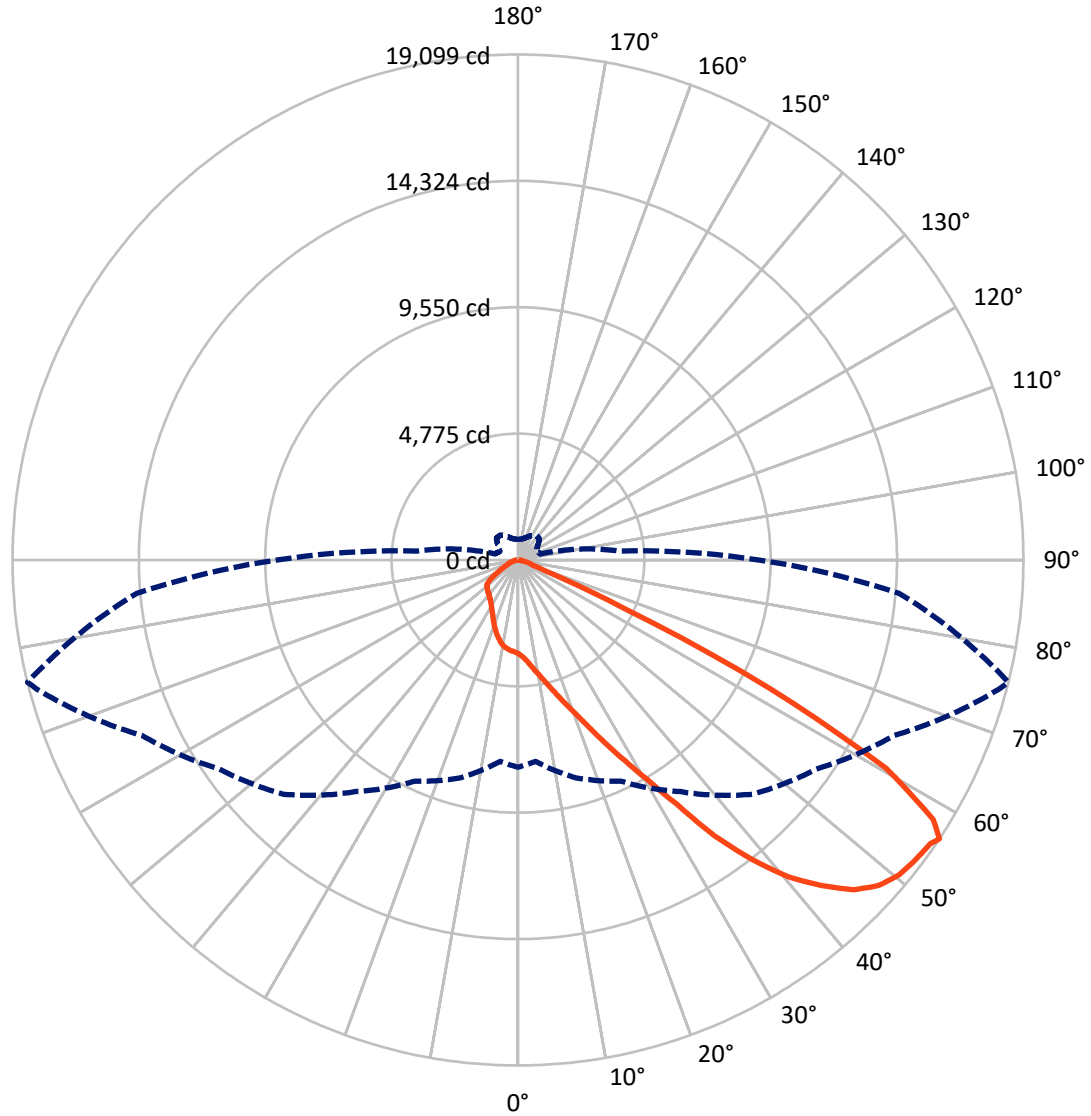
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P530553
CATALOG NUMBER: GALN-SA5D-735-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3344.4	0.0	3344.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17944.6	0.0	17944.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	21289.0	0.0	21289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	1.7
10°-20°	1146.8	5.4
20°-30°	2079.5	9.8
30°-40°	3586.1	16.8
40°-50°	5825.8	27.4
50°-60°	6140.6	28.8
60°-70°	1876.2	8.8
70°-80°	240.5	1.1
80°-90°	36.5	0.2
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°	21289.0	100.0
0°-180°	21289.0	100.0

Coefficient of Utilization

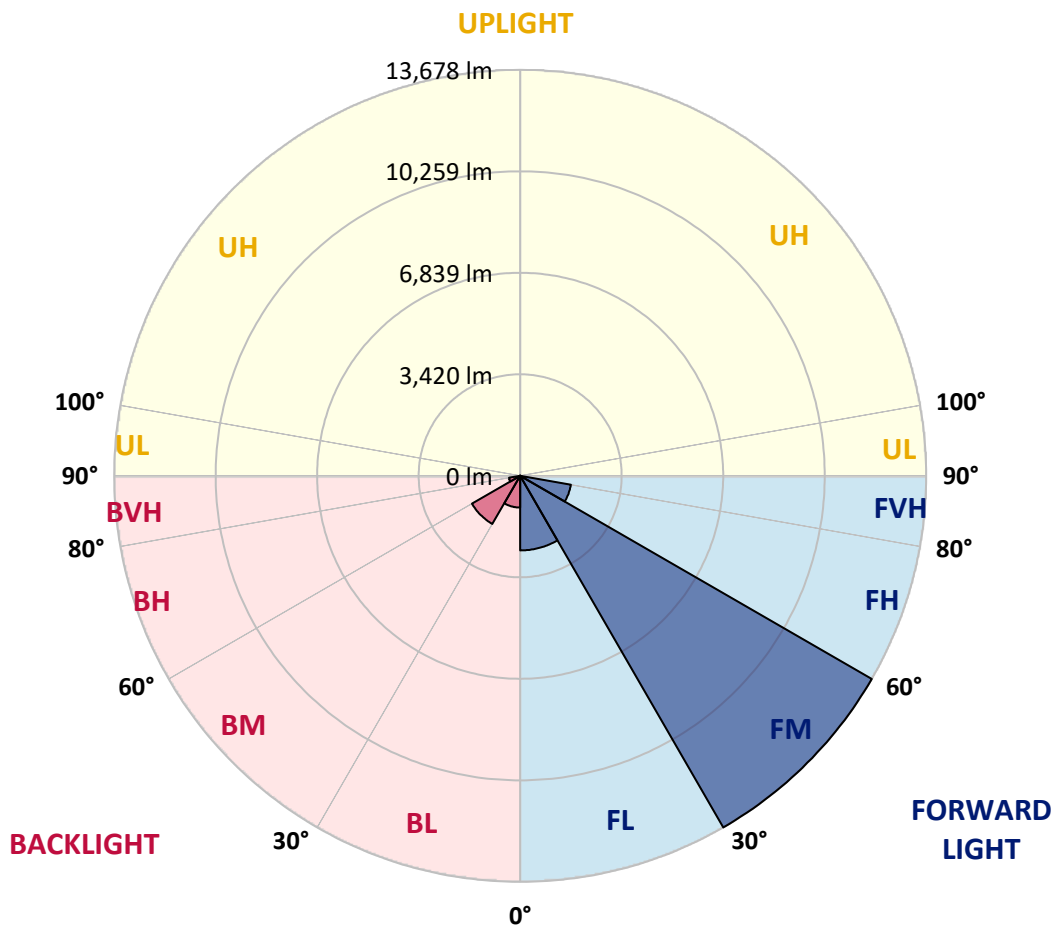


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.4	11.8			
FM (30°-60°)	13678.2	64.2			
FH (60°-80°)	1735.2	8.2			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1069.9	5.0	B3/2500		
BM (30°-60°)	1874.3	8.8	B2/2500		
BH (60°-80°)	381.5	1.8	B1/500		G1/500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CATALOG NUMBER: GALN-SA5D-735-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6
2.5°	4081.2	3987.0	3990.9	3983.1	3971.3	3928.2	3798.7	3779.0	3692.7	3669.2	3590.7
5°	4571.7	4489.3	4536.4	4465.8	4399.1	4359.8	4147.9	4049.8	3912.5	3861.4	3751.6
7.5°	4877.8	4838.6	4822.9	4826.8	4764.0	4665.9	4571.7	4355.9	4171.5	4132.2	3900.7
10°	5026.9	5003.4	5026.9	5015.2	5042.6	5054.4	4889.6	4760.1	4489.3	4422.6	4061.6
12.5°	5062.3	5109.4	5129.0	5180.0	5246.7	5360.5	5348.7	5172.1	4811.1	4767.9	4308.8
15°	5148.6	5187.8	5168.2	5250.6	5376.2	5568.5	5670.5	5643.1	5254.6	5176.1	4595.3
17.5°	5227.1	5156.4	5223.2	5388.0	5513.6	5807.9	6055.1	6168.9	5737.2	5647.0	4858.2
20°	5333.0	5313.4	5301.6	5384.1	5607.7	6000.2	6490.7	6698.7	6278.8	6184.6	5234.9
22.5°	5654.8	5658.7	5650.9	5529.2	5690.1	6133.6	6871.3	7385.4	6926.3	6847.8	5662.7
25°	6078.6	6027.6	5988.4	5890.3	5870.7	6255.2	7255.9	8225.2	7703.3	7648.3	6125.7
27.5°	6526.0	6526.0	6408.3	6318.0	6192.4	6557.4	7609.1	9041.4	8641.2	8566.6	6529.9
30°	7012.6	7040.1	7024.4	6832.1	6753.6	6887.0	7970.1	10085.3	9716.4	9622.2	7197.1
32.5°	7730.7	7671.9	7738.6	7577.7	7346.2	7463.9	8539.1	11019.3	11113.4	10980.0	8072.2
35°	8680.4	8645.1	8601.9	8339.0	8064.3	8158.5	9343.6	12169.1	12867.6	12800.9	8955.1
37.5°	9532.0	9512.4	9477.0	9296.5	8978.7	9092.5	10258.0	13366.0	14578.5	14358.8	10203.0
40°	10426.7	10532.7	10418.8	10258.0	9967.6	10218.7	11333.2	14076.2	16018.7	15751.9	11156.6
42.5°	11639.3	11556.9	11607.9	11313.6	11156.6	11431.3	12412.4	14786.5	17137.1	16819.3	12169.1
45°	12930.4	12934.3	12796.9	12702.8	12294.6	12592.9	13075.6	15178.9	18027.9	17780.7	12934.3
47.5°	13758.4	13754.5	13903.6	14052.7	13632.8	13338.5	13526.8	15551.8	18487.1	18373.3	13212.9
50°	13628.9	13668.1	13860.4	14417.6	14637.4	14241.1	13950.7	15441.9	18695.1	18683.3	13452.3
52.5°	11855.1	11984.6	12306.4	13110.9	14217.5	14708.0	14394.1	15645.9	18797.1	18816.7	13809.4
55°	9025.7	9096.4	9708.6	10685.7	11910.1	13589.6	14217.5	15806.8	18875.6	18910.9	14241.1
56°	7828.9	7640.5	8523.4	9218.0	10681.8	12518.3	13770.1	15681.3	18828.5	19099.3	14456.9
57.5°	5909.9	5784.3	6498.5	7365.8	8774.6	10713.2	12381.0	15088.7	18510.6	18506.7	14146.9
60°	3594.6	3469.0	4018.4	4528.6	5317.3	6596.6	8366.5	12016.0	15649.9	15979.5	11454.8
62.5°	2138.7	2217.2	2758.7	3068.8	3323.8	3457.3	4328.4	7142.1	10442.4	10677.8	7106.8
65°	1424.5	1452.0	1860.1	2370.2	2484.0	1977.8	1762.0	2892.2	4528.6	4383.4	2931.4
67.5°	879.0	941.8	1247.9	1781.6	1973.9	1444.1	835.9	1079.2	1247.9	1247.9	847.6
70°	533.7	565.1	831.9	1212.6	1353.9	930.0	608.3	608.3	600.4	588.6	506.2
72.5°	255.1	274.7	423.8	624.0	635.7	490.5	470.9	514.1	502.3	498.4	419.9
75°	109.9	117.7	149.1	196.2	223.7	208.0	286.5	368.9	380.7	368.9	302.2
77.5°	35.3	39.2	54.9	70.6	74.6	90.3	121.7	153.0	176.6	164.8	149.1
80°	3.9	7.8	15.7	35.3	54.9	70.6	90.3	102.0	113.8	113.8	106.0
82.5°	3.9	3.9	15.7	31.4	51.0	66.7	86.3	98.1	113.8	117.7	109.9
85°	0.0	3.9	11.8	27.5	43.2	43.2	39.2	39.2	27.5	27.5	27.5
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6
2.5°	3575.0	3567.1	3461.2	3394.5	3359.1	3288.5	3245.3	3214.0	3190.4	3162.9	3166.9
5°	3622.1	3594.6	3418.0	3296.4	3151.2	3072.7	3006.0	2951.0	2915.7	2907.9	2892.2
7.5°	3755.5	3610.3	3343.4	3123.7	2939.3	2860.8	2801.9	2766.6	2782.3	2747.0	2774.4
10°	3857.5	3641.7	3253.2	2935.3	2750.9	2692.0	2660.6	2688.1	2727.3	2711.6	2692.0
12.5°	3983.1	3673.1	3108.0	2754.8	2582.1	2539.0	2593.9	2644.9	2723.4	2754.8	2715.6
15°	4124.4	3708.4	2923.6	2546.8	2437.0	2472.3	2566.5	2656.7	2735.2	2774.4	2798.0
17.5°	4297.0	3696.6	2743.0	2382.0	2299.6	2401.6	2515.4	2597.8	2715.6	2774.4	2758.7
20°	4457.9	3657.4	2542.9	2217.2	2221.1	2315.3	2409.5	2542.9	2605.7	2684.2	2656.7
22.5°	4611.0	3586.8	2334.9	2103.4	2103.4	2248.6	2295.7	2382.0	2437.0	2476.2	2472.3
25°	4826.8	3453.3	2162.3	1993.5	2040.6	2134.8	2174.0	2201.5	2178.0	2209.3	2213.3
27.5°	4979.9	3316.0	2021.0	1895.4	1981.7	2052.4	2040.6	2024.9	1970.0	1926.8	1954.3
30°	5144.7	3155.1	1899.3	1828.7	1875.8	1938.6	1891.5	1844.4	1758.1	1687.4	1691.3
32.5°	5380.1	3080.5	1793.4	1750.2	1813.0	1820.8	1769.8	1699.2	1612.9	1546.1	1542.2
35°	5819.6	3033.4	1703.1	1699.2	1711.0	1714.9	1663.9	1577.5	1542.2	1487.3	1506.9
37.5°	6259.2	3009.9	1640.3	1624.6	1620.7	1624.6	1565.8	1483.4	1550.1	1546.1	1554.0
40°	6820.3	3115.8	1550.1	1530.5	1534.4	1534.4	1459.8	1436.3	1554.0	1565.8	1569.7
42.5°	7389.3	3249.3	1491.2	1428.4	1444.1	1444.1	1404.9	1377.4	1459.8	1381.3	1369.6
45°	7883.8	3445.5	1428.4	1326.4	1365.6	1385.3	1373.5	1326.4	1275.4	1142.0	1142.0
47.5°	8044.7	3618.1	1353.9	1228.3	1259.7	1346.0	1310.7	1212.6	1122.3	1012.5	1004.6
50°	8327.2	3806.5	1295.0	1114.5	1181.2	1287.1	1251.8	1153.7	1051.7	973.2	977.1
52.5°	8617.6	4022.3	1185.1	981.1	1063.5	1240.1	1240.1	1130.2	973.2	918.3	910.4
55°	9053.2	4014.5	988.9	804.5	949.7	1169.4	1189.0	1012.5	871.2	828.0	828.0
56°	9116.0	3834.0	890.8	753.5	898.7	1149.8	1153.7	981.1	831.9	784.8	784.8
57.5°	8645.1	3461.2	780.9	690.7	835.9	1114.5	1118.4	953.6	800.5	733.8	726.0
60°	6651.6	2342.8	651.4	616.1	757.4	1004.6	1024.2	867.3	702.4	651.4	647.5
62.5°	3755.5	1298.9	572.9	557.2	651.4	855.5	914.3	757.4	596.5	569.0	576.9
65°	1714.9	714.2	482.7	451.3	525.8	659.3	737.8	624.0	490.5	459.1	459.1
67.5°	627.9	486.6	412.0	357.1	368.9	427.7	478.8	404.2	325.7	278.6	290.4
70°	447.4	408.1	361.0	310.0	286.5	278.6	274.7	227.6	160.9	125.6	133.4
72.5°	361.0	337.5	302.2	262.9	223.7	188.4	160.9	117.7	74.6	51.0	47.1
75°	259.0	247.2	219.8	188.4	157.0	133.4	109.9	74.6	39.2	19.6	19.6
77.5°	133.4	133.4	129.5	117.7	98.1	78.5	62.8	43.2	23.5	7.8	7.8
80°	102.0	109.9	113.8	102.0	90.3	70.6	51.0	31.4	15.7	3.9	3.9
82.5°	98.1	113.8	121.7	106.0	90.3	66.7	51.0	31.4	15.7	3.9	3.9
85°	23.5	23.5	35.3	39.2	51.0	54.9	43.2	27.5	11.8	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	0.0
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)