

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: P953079

Luminaire Tested: **GALN-SB6D-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47652 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

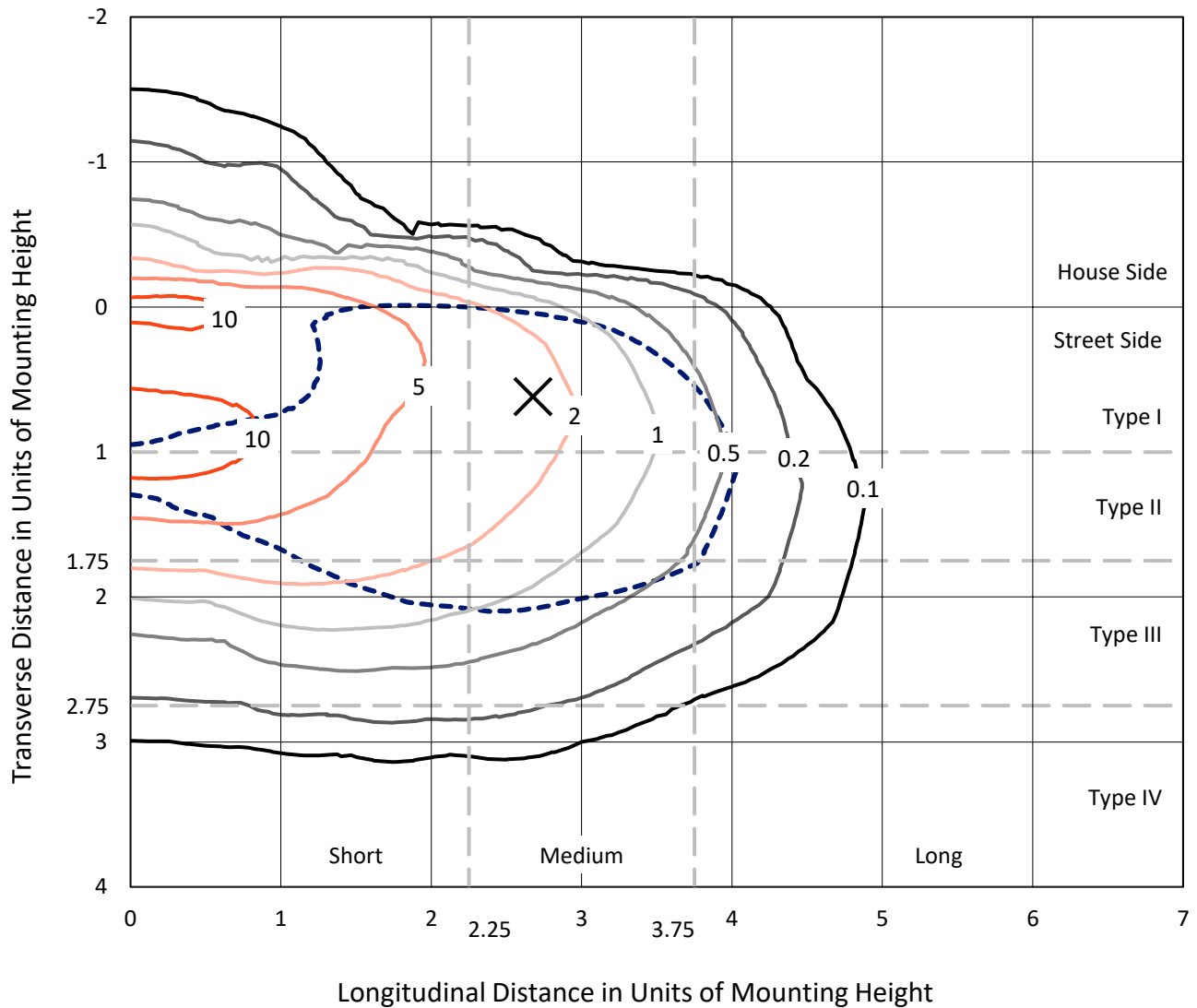
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

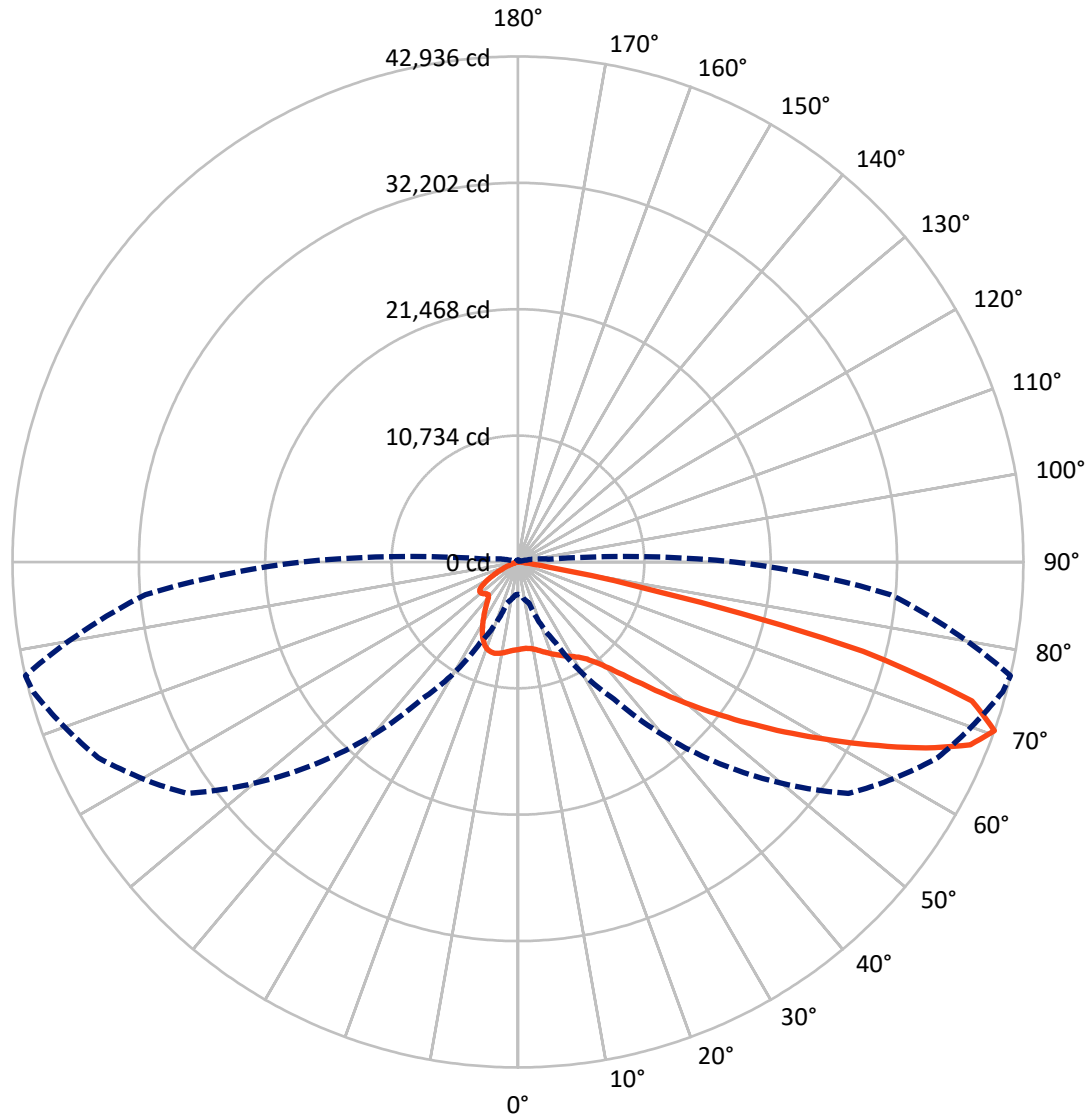
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5023.2	0.0	5023.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	42628.8	0.0	42628.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	47652.0	0.0	47652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	1.3
10°-20°	1520.7	3.2
20°-30°	2352.1	4.9
30°-40°	4268.0	9.0
40°-50°	8056.4	16.9
50°-60°	11640.8	24.4
60°-70°	12391.3	26.0
70°-80°	6566.5	13.8
80°-90°	215.6	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°	47652.0	100.0
0°-180°	47652.0	100.0

Coefficient of Utilization



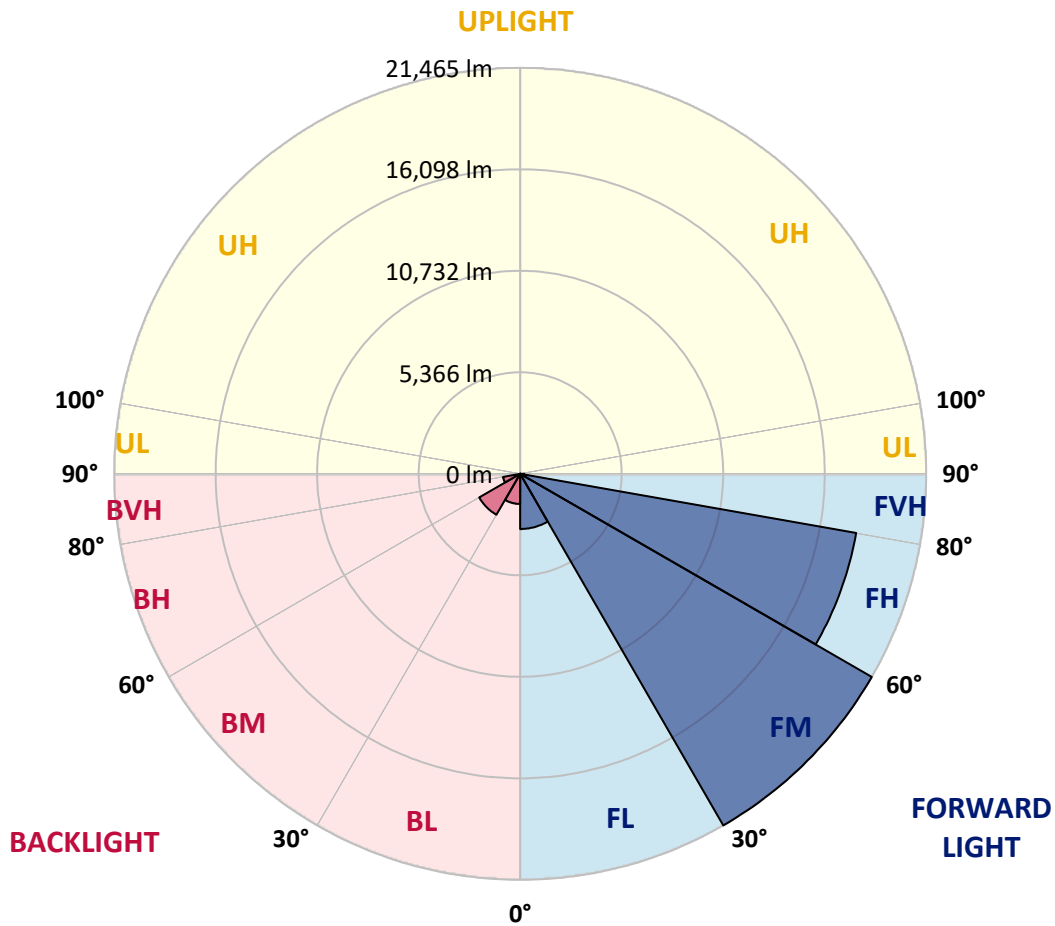
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2917.4	6.1			
FM (30°-60°)	21464.6	45.0			
FH (60°-80°)	18037.0	37.9			G5
FVH (80°-90°)	209.8	0.4			G2/225
BL (0°-30°)	1596.0	3.3	B3/2500		
BM (30°-60°)	2500.6	5.2	B3/5000		
BH (60°-80°)	920.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9
2.5°	6978.5	7041.6	7032.6	7074.8	7089.8	7150.0	7210.2	7291.4	7381.7	7378.7	7438.9
5°	6584.2	6647.4	6662.5	6719.7	6791.9	6885.2	7008.5	7171.0	7339.6	7366.6	7487.0
7.5°	6117.8	6184.0	6223.1	6337.5	6469.9	6662.5	6864.1	7101.8	7381.7	7420.8	7652.5
10°	5651.4	5711.6	5762.7	5925.2	6135.9	6421.7	6749.8	7092.8	7469.0	7526.1	7854.1
12.5°	5362.5	5419.7	5476.8	5618.3	5880.1	6229.2	6674.5	7134.9	7613.4	7694.7	8128.0
15°	5260.2	5311.3	5356.5	5482.9	5726.6	6123.8	6659.5	7222.2	7797.0	7905.3	8459.0
17.5°	5275.2	5302.3	5332.4	5428.7	5666.4	6075.7	6686.6	7372.7	8013.6	8109.9	8790.0
20°	5362.5	5377.5	5380.5	5446.7	5657.4	6069.7	6740.7	7517.1	8218.3	8347.7	9118.0
22.5°	5473.8	5479.8	5473.8	5519.0	5714.6	6114.8	6812.9	7691.6	8447.0	8567.3	9449.0
25°	5994.4	5880.1	5735.6	5648.4	5810.9	6202.1	6921.3	7926.4	8696.7	8814.1	9771.0
27.5°	7610.4	7282.4	6764.8	6184.0	6009.5	6328.5	7071.7	8164.1	8949.5	9054.8	10117.1
30°	10234.5	9804.1	8925.4	7616.4	6647.4	6593.3	7267.3	8401.8	9217.3	9331.7	10487.2
32.5°	12864.6	12759.2	11745.1	9933.5	8082.8	7183.1	7592.3	8723.8	9572.4	9662.7	10986.8
35°	15524.7	15311.1	14480.5	12690.0	10294.6	8383.8	8134.0	9145.1	10038.9	10141.2	11715.0
37.5°	17562.0	17432.6	16918.0	15443.5	12918.7	10237.5	9060.9	9798.1	10715.9	10830.3	12647.9
40°	19361.5	19301.3	19126.8	18154.8	15852.7	12662.9	10502.3	10809.2	11654.8	11790.2	13791.4
42.5°	20775.9	20917.3	21016.6	20745.8	18877.0	15431.4	12440.2	12229.6	12963.9	13102.3	15247.9
45°	22223.3	22271.5	22671.7	23062.9	21880.3	18326.3	14625.0	13893.7	14591.9	14763.4	16993.2
47.5°	23153.2	23345.8	24049.9	24739.1	24405.0	21197.2	16972.2	15858.8	16478.7	16800.7	18949.3
50°	23222.4	23586.5	24555.5	25756.2	26243.7	23929.6	19524.0	18097.6	18756.7	19111.8	21037.7
52.5°	22069.9	22635.6	24137.2	25894.6	27236.7	26243.7	22163.1	20336.5	21182.1	21645.5	23204.3
55°	16921.0	17661.3	22563.4	25142.3	27275.9	27998.1	24733.0	22668.7	23884.4	24408.0	25545.5
57.5°	14742.3	15115.5	17739.5	23836.3	26550.6	28705.3	27056.2	24889.5	26824.5	27474.5	27757.3
60°	12265.7	12756.2	14877.7	21699.7	25566.6	28774.5	29108.5	27754.3	30011.3	30742.5	29785.6
62.5°	8335.6	8868.3	10977.7	18028.4	24221.5	28741.4	30790.7	30703.4	33553.2	34338.6	31503.9
65°	5163.9	5497.9	6888.2	14721.3	22340.7	28777.5	32551.1	34284.4	37290.6	38088.1	32833.9
67.5°	4080.5	4234.0	4959.2	11302.7	19099.7	27965.0	34308.5	37651.8	40808.5	41440.4	33240.2
70°	2741.4	2834.7	3608.1	7577.3	14209.7	24215.4	34275.4	39343.0	42620.0	42936.0	31759.6
72.5°	1444.4	1516.7	2109.5	3508.8	8582.4	17212.9	28891.8	37320.7	40817.5	40342.0	27146.5
75°	722.2	842.6	1420.4	1781.5	3665.3	9599.5	17941.2	29424.5	32126.8	30285.1	17417.5
77.5°	547.7	662.0	1173.6	1173.6	1275.9	3231.9	7598.4	16048.3	14802.5	12325.9	5112.7
80°	349.1	451.4	1026.2	887.7	532.6	821.5	1980.1	4495.8	3144.7	2392.4	929.9
82.5°	204.6	294.9	854.6	586.8	297.9	303.9	559.7	956.9	815.5	635.0	285.9
85°	81.2	192.6	586.8	231.7	117.4	75.2	168.5	204.6	168.5	126.4	72.2
87.5°	0.0	45.1	102.3	0.0	9.0	6.0	12.0	15.0	15.0	12.0	24.1
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°	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9	7432.9
2.5°	7466.0	7472.0	7490.0	7493.0	7450.9	7396.7	7375.7	7366.6	7330.5	7327.5	7333.5
5°	7556.2	7583.3	7556.2	7478.0	7291.4	7029.6	6831.0	6668.5	6521.0	6475.9	6448.8
7.5°	7736.8	7763.9	7682.6	7375.7	6906.2	6385.6	5916.2	5585.2	5287.3	5175.9	5130.8
10°	7995.6	8031.7	7775.9	7156.0	6325.4	5488.9	4694.4	4134.7	3698.4	3520.8	3445.6
12.5°	8320.6	8335.6	7827.1	6822.0	5570.1	4375.5	3250.0	2651.2	2263.0	2118.5	2073.4
15°	8678.7	8657.6	7833.1	6367.6	4541.0	3093.5	2121.5	1742.4	1585.9	1537.7	1537.7
17.5°	9054.8	8967.6	7712.7	5711.6	3412.5	2115.5	1573.8	1483.6	1456.5	1444.4	1441.4
20°	9425.0	9229.4	7493.0	4853.9	2449.5	1579.9	1429.4	1402.3	1387.3	1381.2	1375.2
22.5°	9762.0	9428.0	7116.9	3857.9	1778.5	1396.3	1351.2	1327.1	1300.0	1288.0	1285.0
25°	10090.0	9542.3	6587.3	2928.0	1423.4	1306.0	1269.9	1224.8	1188.7	1173.6	1167.6
27.5°	10409.0	9614.6	5925.2	2166.7	1269.9	1221.8	1155.6	1092.4	1065.3	1059.3	1053.2
30°	10749.0	9638.6	5172.9	1616.0	1176.6	1116.4	1020.1	947.9	932.9	935.9	935.9
32.5°	11164.3	9674.7	4414.6	1324.1	1098.4	990.0	875.7	800.5	788.4	800.5	797.5
35°	11660.8	9747.0	3683.3	1218.7	1029.2	860.6	737.3	674.1	662.0	671.1	668.1
37.5°	12334.9	9864.3	3000.2	1197.7	972.0	752.3	619.9	568.7	568.7	571.8	568.7
40°	13231.7	10177.3	2389.3	1182.6	941.9	671.1	523.6	502.5	511.6	517.6	517.6
42.5°	14324.0	10842.3	1977.1	1164.6	908.8	635.0	475.5	466.4	481.5	487.5	487.5
45°	15548.8	11684.9	1832.6	1134.5	878.7	659.0	454.4	442.4	460.4	463.4	466.4
47.5°	16815.7	12509.5	1814.6	1101.4	848.6	695.1	448.4	421.3	442.4	445.4	448.4
50°	18097.6	13048.1	1832.6	1050.2	800.5	695.1	451.4	400.2	418.3	427.3	430.3
52.5°	19388.6	13294.9	1820.6	938.9	716.2	653.0	451.4	382.2	400.2	406.2	406.2
55°	20640.5	13246.7	1637.0	773.4	607.9	577.8	439.4	367.1	379.2	382.2	382.2
57.5°	21630.5	12575.7	1297.0	601.9	493.5	481.5	400.2	349.1	358.1	355.1	355.1
60°	22148.1	11101.1	926.8	463.4	388.2	379.2	352.1	325.0	331.0	316.0	313.0
62.5°	22154.1	9151.1	619.9	367.1	310.0	300.9	300.9	291.9	285.9	255.8	246.8
65°	21681.7	6987.5	412.3	291.9	249.8	234.7	252.8	249.8	228.7	186.6	180.6
67.5°	20610.4	4580.1	313.0	228.7	192.6	183.6	201.6	210.6	195.6	156.5	153.5
70°	18407.6	2666.2	258.8	177.5	144.4	135.4	162.5	180.6	162.5	126.4	120.4
72.5°	15290.0	1438.4	210.6	132.4	99.3	90.3	129.4	147.5	129.4	93.3	90.3
75°	9921.5	770.4	162.5	87.3	51.2	57.2	96.3	108.3	90.3	60.2	54.2
77.5°	3331.2	340.0	102.3	42.1	24.1	24.1	57.2	66.2	42.1	21.1	18.1
80°	743.3	141.4	42.1	18.1	9.0	9.0	12.0	12.0	6.0	0.0	0.0
82.5°	243.7	57.2	18.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	93.3	21.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)