

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: P457479

Luminaire Tested: **GALN-SA8D-750-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51384 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

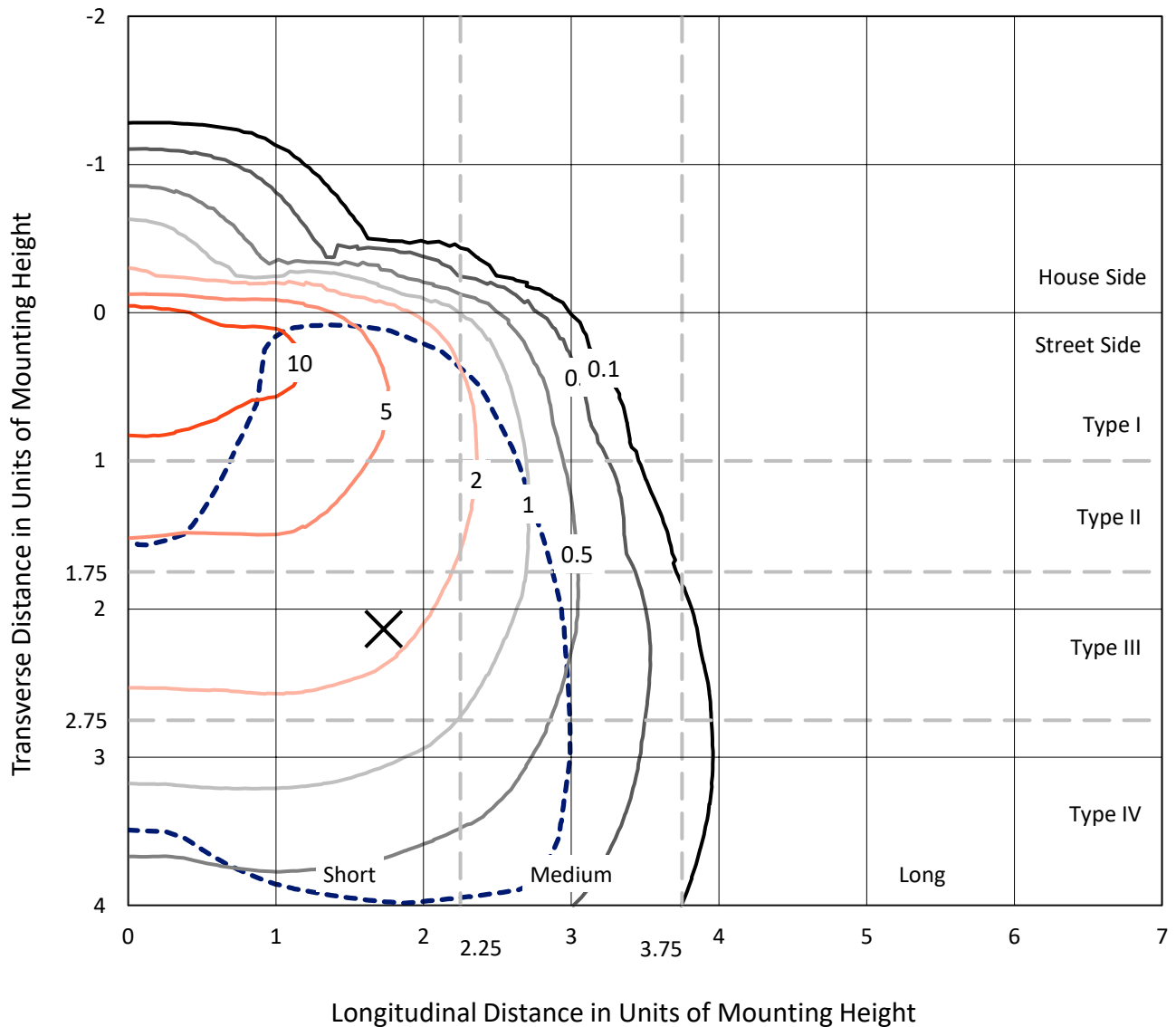
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

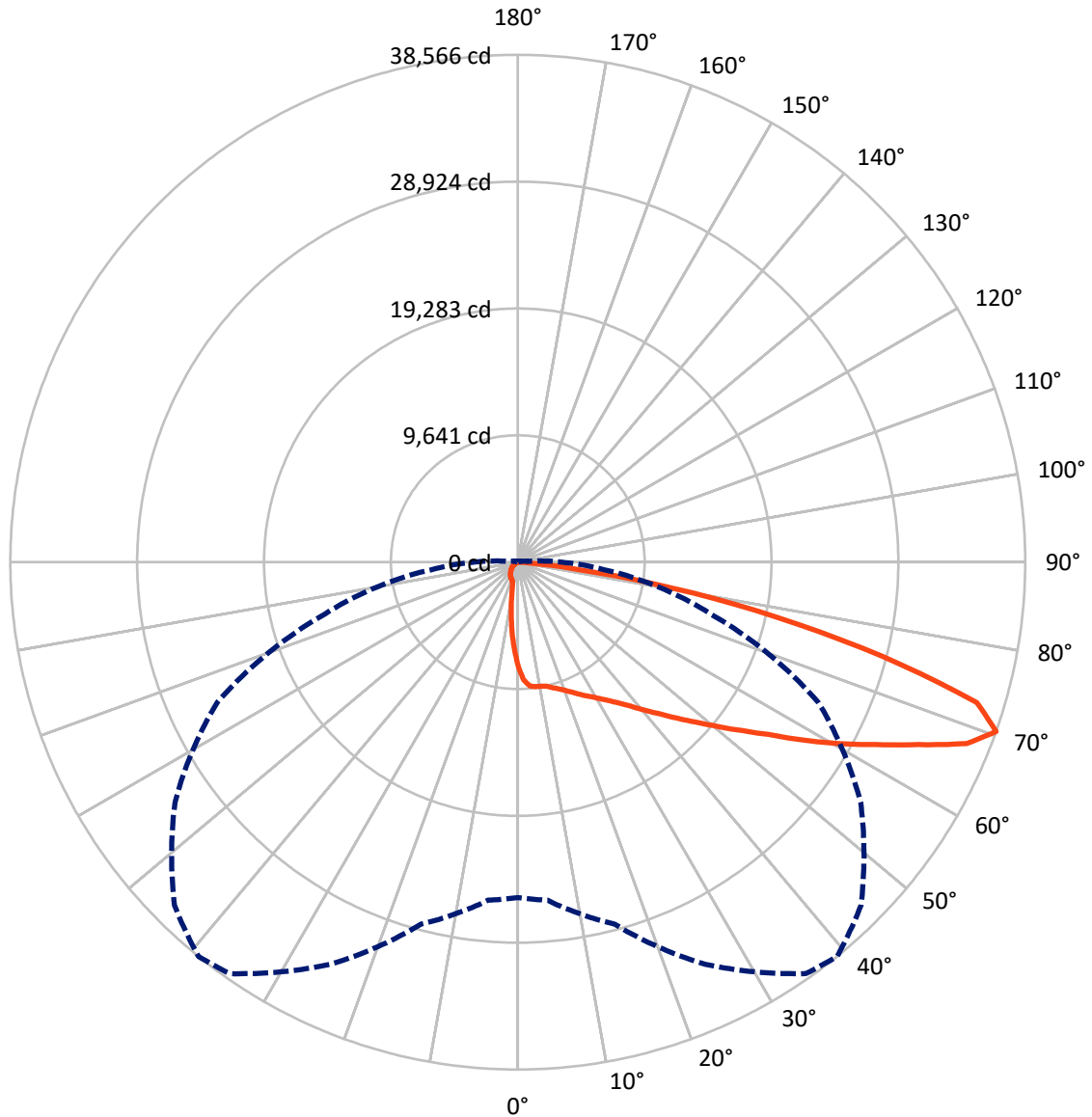
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3350.5	0.0	3350.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	48033.5	0.0	48033.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	51384.0	0.0	51384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.9	1.3
10°-20°	1777.1	3.5
20°-30°	2977.2	5.8
30°-40°	4617.3	9.0
40°-50°	7316.9	14.2
50°-60°	10725.6	20.9
60°-70°	13747.6	26.8
70°-80°	8638.5	16.8
80°-90°	899.9	1.8
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°	51384.0	100.0
0°-180°	51384.0	100.0

**Coefficient of Utilization**



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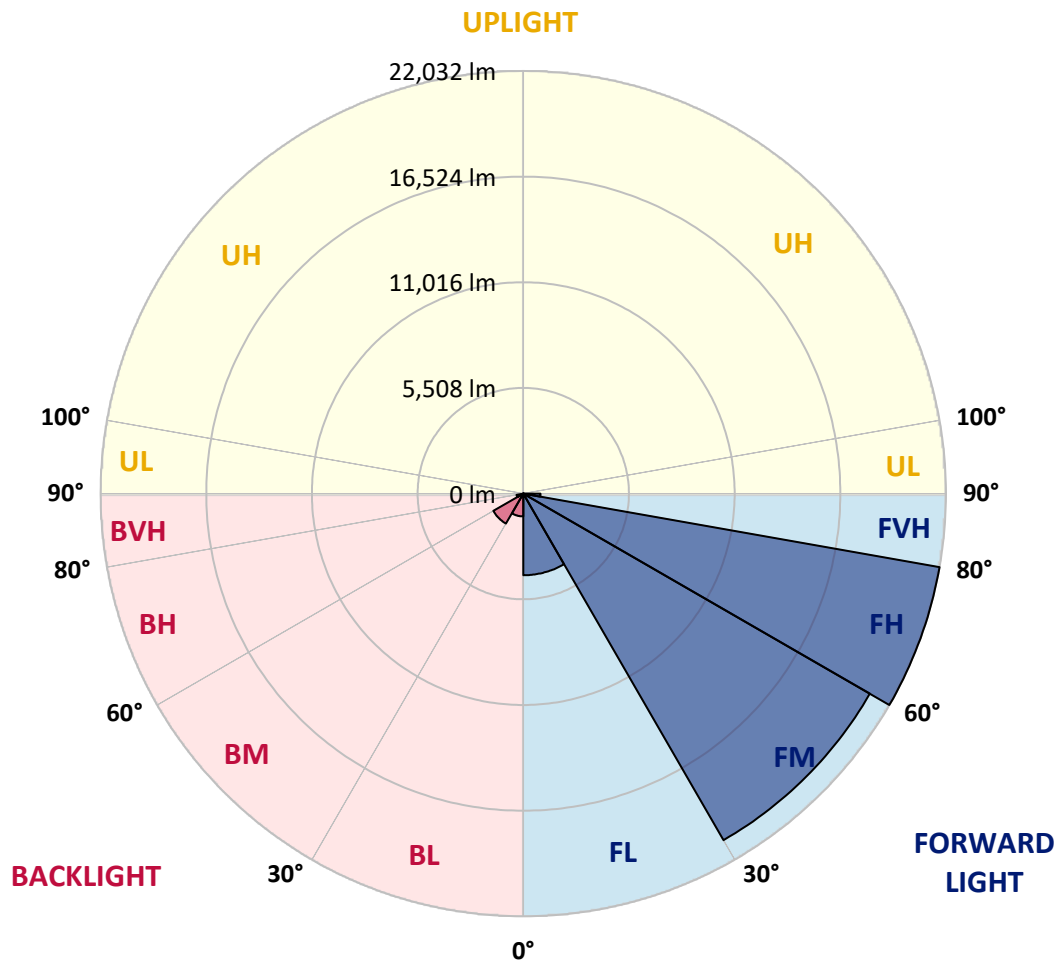
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4251.8	8.3			
FM	(30°-60°)	20856.7	40.6			
FH	(60°-80°)	22031.8	42.9			G5
FVH	(80°-90°)	893.3	1.7			G5
BL	(0°-30°)	1186.4	2.3	B3/2500		
BM	(30°-60°)	1803.1	3.5	B2/2500		
BH	(60°-80°)	354.3	0.7	B1/500		G1/500
BVH	(80°-90°)	6.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7
2.5°	9264.2	9233.1	9191.7	9143.3	9005.2	8981.0	8898.2	8722.1	8511.4	8338.8	8100.5
5°	9702.7	9720.0	9688.9	9602.6	9502.4	9443.7	9340.1	9067.4	8794.6	8445.8	8055.6
7.5°	9802.8	9837.4	9799.4	9716.5	9619.8	9557.7	9474.8	9240.0	8922.3	8525.2	7990.0
10°	9792.5	9833.9	9809.7	9733.8	9654.3	9595.6	9505.9	9319.4	9063.9	8646.1	8010.8
12.5°	9775.2	9830.4	9827.0	9789.0	9723.4	9678.5	9623.3	9457.5	9219.3	8822.2	8124.7
15°	9726.9	9795.9	9858.1	9889.1	9892.6	9892.6	9823.5	9647.4	9419.5	9053.5	8273.2
17.5°	9747.6	9827.0	9982.4	10072.2	10134.3	10127.4	10054.9	9865.0	9612.9	9291.8	8428.6
20°	9875.3	9982.4	10199.9	10379.5	10441.6	10420.9	10324.2	10103.2	9816.6	9495.5	8580.5
22.5°	10189.5	10286.2	10559.0	10769.6	10814.5	10759.3	10621.2	10320.8	10061.8	9716.5	8763.5
25°	10659.1	10773.1	11025.2	11184.0	11184.0	11152.9	10959.5	10607.4	10338.0	10023.8	9001.7
27.5°	11228.9	11325.6	11574.2	11715.7	11632.9	11543.1	11349.7	10925.0	10666.1	10410.5	9288.3
30°	11805.5	11867.7	12130.1	12192.2	12105.9	11992.0	11784.8	11360.1	11132.2	10935.4	9702.7
32.5°	12351.1	12485.7	12703.3	12689.5	12572.1	12516.8	12326.9	11874.6	11746.8	11726.1	10282.8
35°	12896.6	13000.2	13193.6	13241.9	13138.3	13128.0	12989.9	12654.9	12658.4	12793.0	11187.4
37.5°	13366.2	13459.5	13687.4	13794.4	13815.1	13866.9	13811.7	13590.7	13904.9	14274.3	12385.6
40°	13759.9	13891.1	14181.1	14367.6	14581.7	14771.6	14781.9	14830.3	15462.1	16097.5	13949.8
42.5°	14067.2	14250.2	14671.4	15016.7	15507.0	15748.7	15942.1	16208.0	17271.5	18221.0	15793.6
45°	14467.7	14678.3	15203.2	15745.3	16511.8	16908.9	17178.2	17889.5	19398.5	20693.3	17685.8
47.5°	15130.7	15241.2	15776.4	16567.1	17575.3	18141.6	18666.5	19743.8	21680.8	22841.0	19260.4
50°	15983.5	16056.1	16460.0	17558.1	18863.3	19609.1	20565.6	21832.8	24049.5	24622.7	20151.2
52.5°	16926.2	16950.4	17254.2	18649.2	20306.6	21245.8	22316.2	23880.4	25979.7	25893.4	20741.7
55°	18020.8	17986.2	18245.2	19833.5	22015.8	23089.6	24336.1	25976.3	27654.4	26794.6	21080.0
57.5°	19274.2	19180.9	19433.0	21404.6	24204.9	25489.4	26756.6	27785.6	28952.7	27550.8	21242.3
60°	20586.3	20399.8	20700.2	23169.1	26784.3	28003.1	29056.3	29332.5	30320.0	28151.6	20962.6
62.5°	21632.5	21636.0	22195.3	25047.4	29436.1	30503.0	31062.4	31311.0	31497.5	28020.4	19491.7
65°	23265.7	23321.0	24215.3	27654.4	32505.7	33431.1	33814.4	33006.4	31549.3	26390.6	17281.8
67.5°	24950.8	25126.9	26763.5	31245.4	36051.9	36797.7	36303.9	33334.4	30140.5	22671.8	13103.8
70°	25499.8	25789.8	28486.5	33717.7	38178.9	38565.6	36894.4	31804.8	25195.9	15158.3	6595.1
72.5°	23365.9	23835.5	27495.6	32816.5	36821.9	36486.9	33009.9	26673.8	16018.1	5756.0	2013.0
75°	16477.3	16684.5	22851.4	27222.8	29615.6	28666.1	25109.6	17195.5	6588.2	1616.0	690.6
77.5°	8508.0	8407.8	13590.7	18062.2	21121.5	20137.4	16442.8	8901.6	2496.5	673.3	428.2
80°	4399.0	4471.5	5880.3	9464.4	12893.2	11864.2	8766.9	4126.2	1329.4	372.9	328.0
82.5°	2465.4	2313.5	3380.4	4133.1	6028.8	4727.0	3363.1	2921.2	580.1	224.4	310.8
85°	448.9	469.6	1854.2	2234.0	2092.5	1329.4	1084.2	1950.9	169.2	124.3	217.5
87.5°	6.9	6.9	359.1	642.2	407.4	186.5	341.8	279.7	34.5	48.3	38.0
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°	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7	8017.7
2.5°	7979.7	7848.5	7603.3	7361.6	7054.3	6802.2	6633.0	6456.9	6277.4	6291.2	6332.6
5°	7841.6	7613.7	7130.3	6619.2	6128.9	5686.9	5251.9	4861.7	4702.9	4557.8	4564.8
7.5°	7703.5	7382.3	6674.5	5873.4	5131.0	4378.3	3832.7	3383.9	3145.6	2966.1	2914.3
10°	7641.3	7216.6	6256.7	5155.2	4102.1	3280.3	2579.3	2213.3	1930.2	1840.4	1864.6
12.5°	7668.9	7133.7	5880.3	4506.1	3252.6	2285.8	1795.5	1609.1	1546.9	1536.5	1529.6
15°	7720.7	7075.0	5510.9	3787.8	2389.4	1698.8	1508.9	1474.4	1467.5	1460.6	1464.0
17.5°	7789.8	7023.2	5117.2	3114.5	1833.5	1484.8	1429.5	1412.2	1408.8	1408.8	1408.8
20°	7858.8	6964.5	4678.7	2513.7	1529.6	1401.9	1367.4	1357.0	1353.5	1353.5	1350.1
22.5°	7938.2	6912.7	4233.3	1975.1	1408.8	1343.2	1312.1	1305.2	1301.7	1298.3	1298.3
25°	8052.2	6847.1	3760.2	1616.0	1332.8	1287.9	1256.9	1250.0	1246.5	1232.7	1236.1
27.5°	8204.1	6798.8	3273.4	1395.0	1263.8	1218.9	1198.2	1187.8	1180.9	1170.5	1174.0
30°	8411.3	6757.4	2755.4	1274.1	1184.3	1146.4	1125.6	1118.7	1111.8	1101.5	1101.5
32.5°	8770.4	6774.6	2209.9	1177.4	1111.8	1067.0	1046.2	1039.3	1032.4	1022.1	1022.1
35°	9309.1	6874.8	1767.9	1094.6	1025.5	980.6	959.9	959.9	949.6	935.7	932.3
37.5°	10189.5	7130.3	1419.1	1015.2	942.6	901.2	877.0	870.1	859.8	839.1	835.6
40°	11228.9	7527.4	1194.7	935.7	866.7	825.2	804.5	783.8	756.2	735.5	732.0
42.5°	12534.1	7934.8	1035.9	856.3	794.2	756.2	732.0	697.5	656.1	628.4	625.0
45°	13894.5	8307.7	928.8	783.8	725.1	694.0	666.4	611.2	559.4	524.8	521.4
47.5°	14909.7	8376.8	842.5	714.8	666.4	635.3	597.4	528.3	459.2	428.2	417.8
50°	15389.6	8041.8	752.7	645.7	607.7	573.2	524.8	445.4	369.5	331.5	324.6
52.5°	15558.8	7461.7	680.2	583.5	549.0	507.6	448.9	359.1	290.0	252.1	248.6
55°	15489.8	6729.7	614.6	524.8	480.0	431.6	372.9	286.6	214.1	183.0	176.1
57.5°	15127.2	5797.4	549.0	466.1	410.9	362.6	297.0	214.1	145.0	117.4	113.9
60°	14150.0	4526.8	483.4	400.5	348.7	297.0	234.8	151.9	89.8	65.6	65.6
62.5°	12499.5	3359.7	421.3	334.9	293.5	238.3	165.7	96.7	48.3	34.5	31.1
65°	10445.1	2479.2	352.2	283.1	245.2	186.5	117.4	58.7	24.2	10.4	6.9
67.5°	7289.1	1529.6	293.5	231.3	200.3	134.7	72.5	24.2	10.4	0.0	0.0
70°	3311.3	728.6	224.4	176.1	151.9	96.7	38.0	13.8	6.9	0.0	0.0
72.5°	1029.0	383.3	158.8	127.8	103.6	62.2	20.7	10.4	6.9	0.0	0.0
75°	476.5	245.2	100.1	69.1	58.7	31.1	13.8	6.9	3.5	0.0	0.0
77.5°	355.7	189.9	58.7	38.0	31.1	20.7	10.4	6.9	3.5	0.0	0.0
80°	310.8	96.7	34.5	24.2	17.3	13.8	6.9	3.5	0.0	0.0	0.0
82.5°	279.7	48.3	20.7	13.8	10.4	6.9	3.5	3.5	0.0	0.0	0.0
85°	151.9	27.6	13.8	10.4	6.9	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	27.6	13.8	10.4	6.9	6.9	3.5	3.5	3.5	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)