

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: P382692

Luminaire Tested: **GLEON-SA0D-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0D-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 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: 58064.3 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

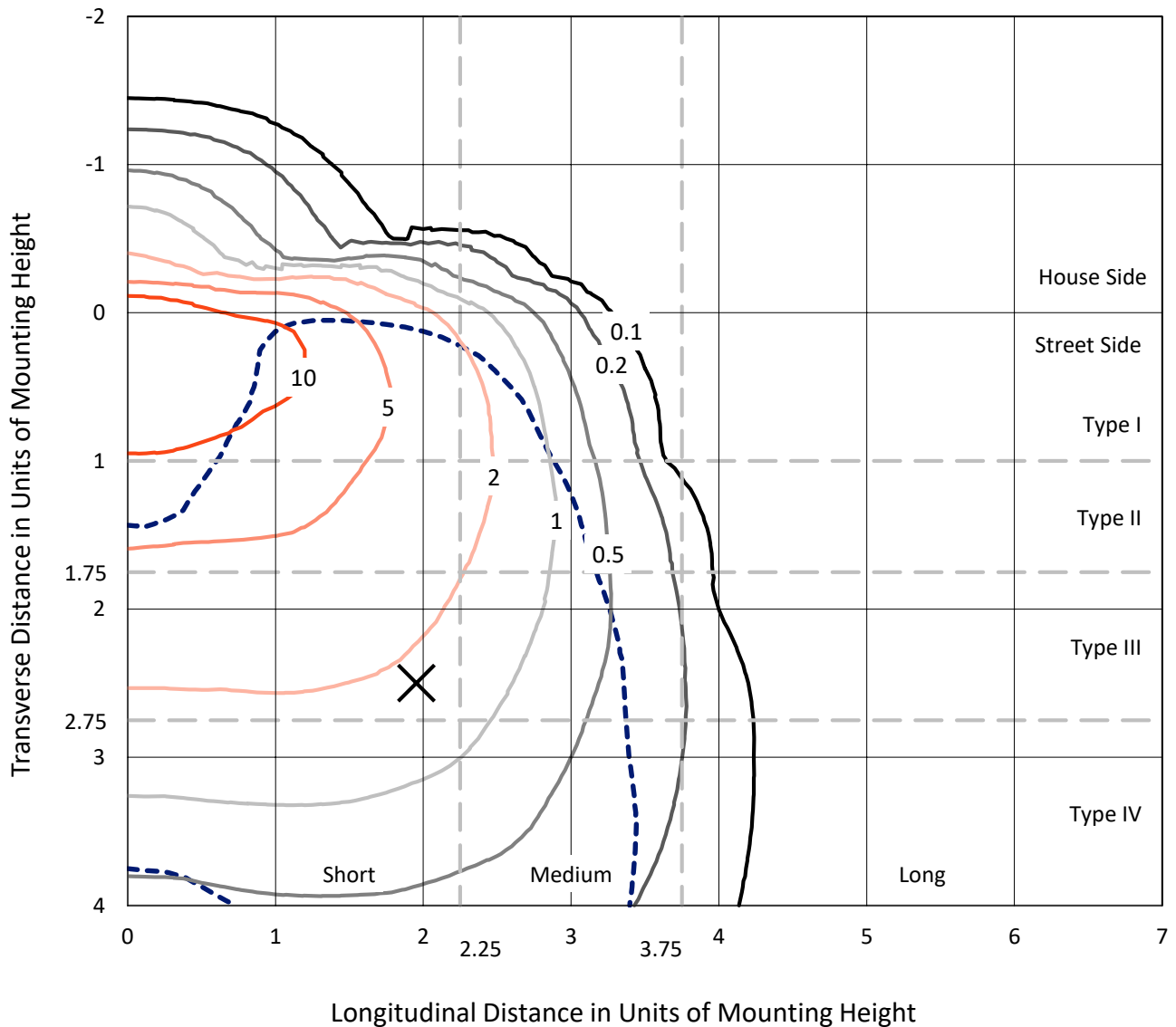
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

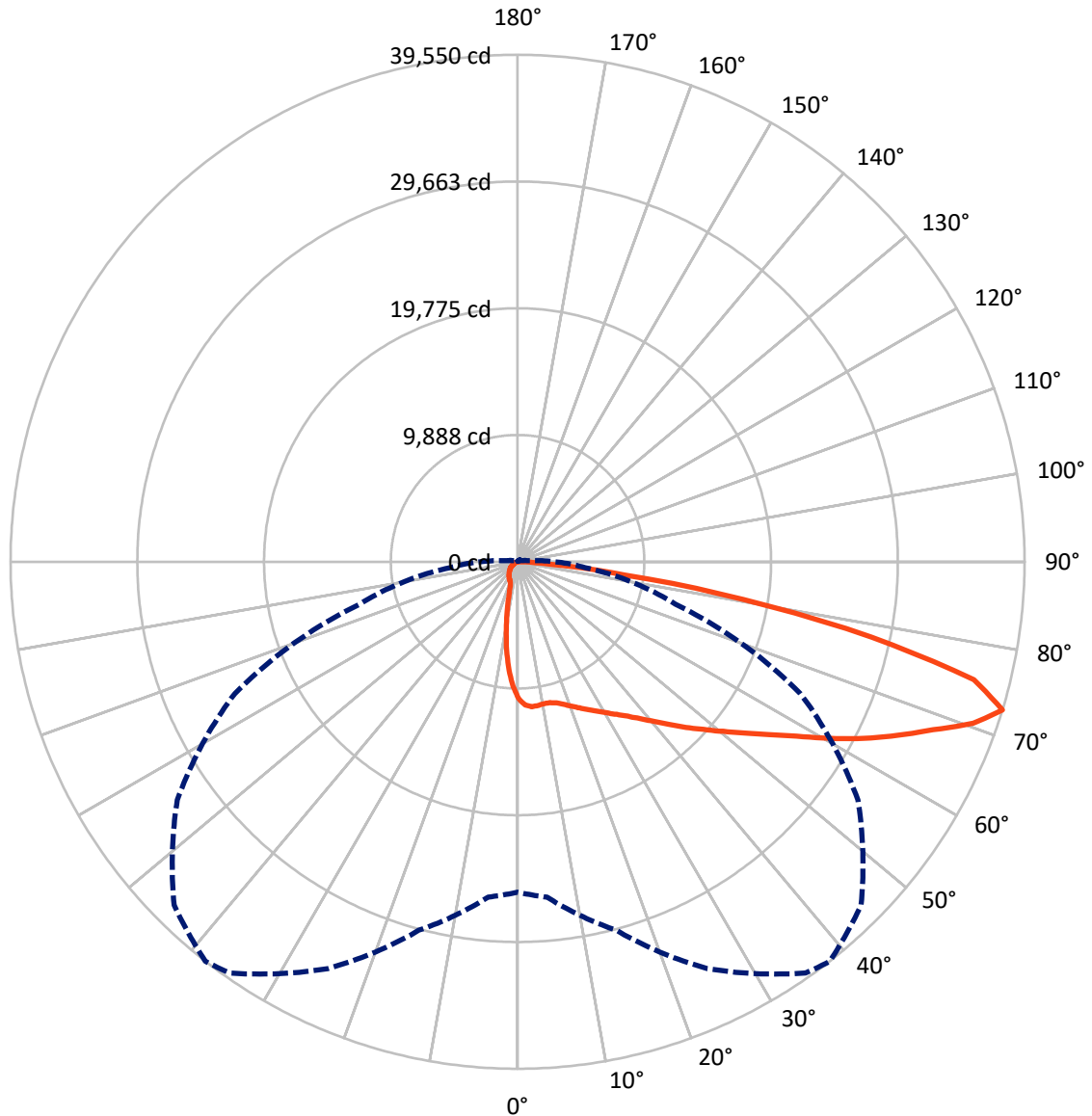
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4886.3	0.0	4886.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	53178.0	0.0	53178.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	58064.3	0.0	58064.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	910.0	1.6
10°-20°	2225.0	3.8
20°-30°	3538.9	6.1
30°-40°	5320.4	9.2
40°-50°	8116.6	14.0
50°-60°	11471.4	19.8
60°-70°	14389.0	24.8
70°-80°	10758.9	18.5
80°-90°	1334.1	2.3
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°	58064.3	100.0
0°-180°	58064.3	100.0

**Coefficient of Utilization**

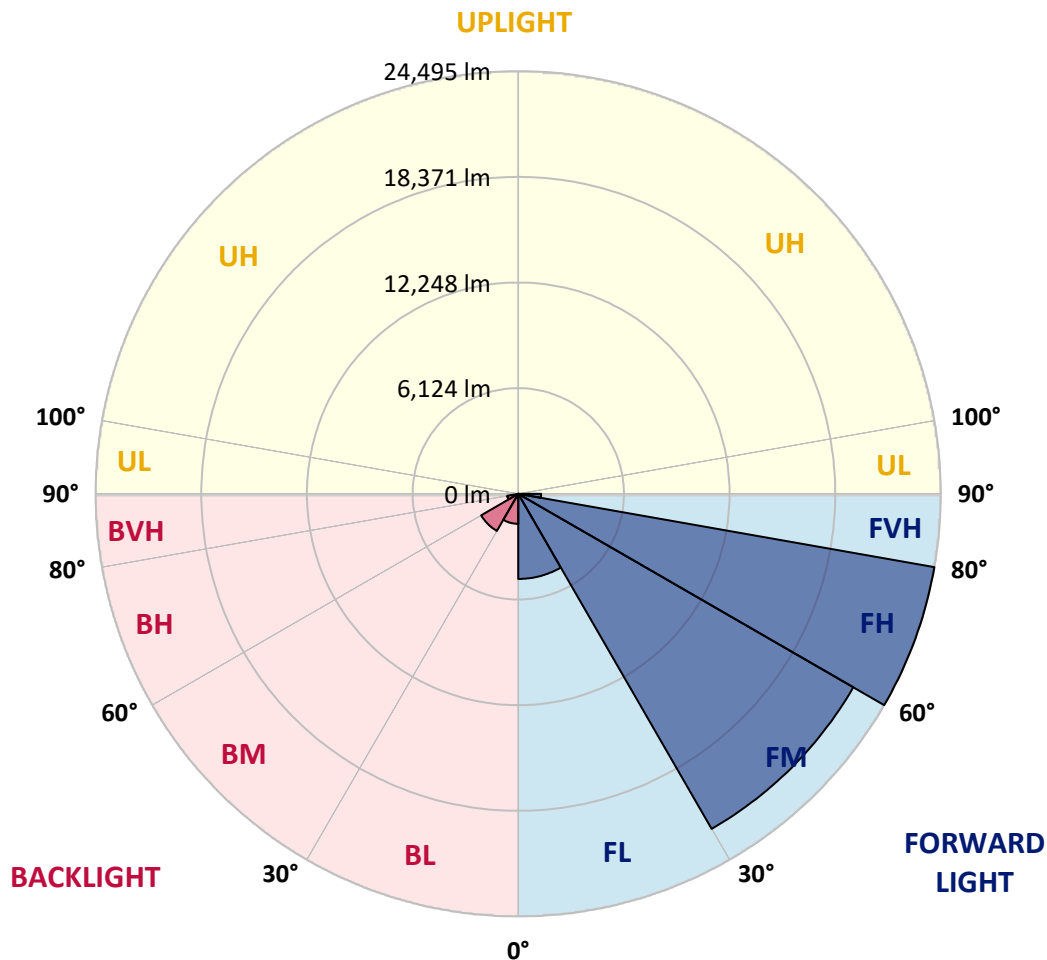


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4934.1	8.5			
FM (30°-60°)	22427.0	38.6			
FH (60°-80°)	24495.3	42.2			G5
FVH (80°-90°)	1321.6	2.3			G5
BL (0°-30°)	1739.8	3.0	B3/2500		
BM (30°-60°)	2481.3	4.3	B2/2500		
BH (60°-80°)	652.7	1.1	B2/1000		G2/1000
BVH (80°-90°)	12.4	0.0			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9
2.5°	11333.8	11336.2	11309.6	11266.2	11210.8	11181.8	11133.6	11056.4	10974.5	10827.4	10668.2
5°	11565.3	11565.3	11531.4	11473.6	11384.4	11357.9	11266.2	11143.3	10974.5	10735.7	10468.1
7.5°	11541.1	11546.0	11500.1	11439.9	11350.6	11326.5	11215.6	11078.2	10868.4	10578.9	10236.5
10°	11415.7	11427.8	11391.6	11362.6	11280.7	11254.1	11150.4	11013.0	10803.3	10494.5	10101.5
12.5°	11287.9	11300.0	11312.1	11338.6	11287.9	11278.2	11196.3	11080.6	10880.4	10559.7	10116.0
15°	11206.0	11230.1	11316.9	11420.6	11432.6	11423.0	11369.9	11261.4	11058.9	10726.0	10219.6
17.5°	11206.0	11244.5	11425.3	11623.1	11693.1	11700.2	11654.5	11502.6	11261.4	10904.5	10316.1
20°	11300.0	11353.1	11635.2	11914.9	12030.7	12030.7	11941.4	11729.2	11447.0	11066.0	10381.3
22.5°	11541.1	11611.1	11965.5	12288.7	12411.7	12385.1	12264.6	11955.9	11640.0	11249.4	10463.2
25°	12016.2	12069.2	12438.2	12763.7	12838.5	12778.2	12626.3	12230.8	11886.0	11497.7	10612.7
27.5°	12628.7	12635.9	13016.9	13291.8	13246.0	13205.1	13014.6	12575.6	12240.4	11852.2	10870.8
30°	13301.5	13301.5	13636.6	13846.4	13706.6	13672.8	13482.3	12992.9	12693.8	12334.5	11237.3
32.5°	13952.5	13981.5	14254.0	14386.6	14229.9	14196.1	14010.5	13520.9	13296.6	13070.0	11808.8
35°	14582.0	14603.7	14861.6	14934.0	14784.5	14794.2	14661.5	14246.7	14162.3	14133.4	12669.7
37.5°	15192.1	15196.9	15459.7	15505.5	15430.8	15512.8	15524.8	15158.2	15315.0	15548.9	13882.7
40°	15749.1	15753.9	16014.3	16132.5	16260.3	16366.4	16460.4	16265.1	16783.6	17326.1	15327.0
42.5°	16195.2	16245.8	16576.2	16800.5	17138.1	17340.7	17596.3	17586.6	18531.8	19346.9	17072.9
45°	16588.3	16675.1	17135.6	17528.7	18107.4	18430.6	18830.9	19144.4	20499.6	21596.8	18840.6
47.5°	17106.8	17188.7	17714.4	18358.3	19129.9	19554.3	20217.5	20895.1	22662.7	23805.7	20567.1
50°	17837.4	17801.2	18319.6	19243.3	20234.3	20791.4	21736.6	22751.8	24808.9	25730.0	21582.4
52.5°	18616.2	18601.8	18985.2	20205.5	21536.5	22187.6	23436.7	24671.4	26861.0	27056.3	22047.8
55°	19580.9	19477.2	19800.3	21302.6	23082.3	23781.6	25252.6	26571.6	28495.9	27803.8	22281.7
57.5°	20591.2	20420.0	20728.7	22525.2	24825.7	25652.9	27263.7	28423.6	29583.4	28315.0	22279.3
60°	21635.4	21432.9	21799.3	24054.0	26991.2	27948.6	29443.6	29675.1	30598.7	28573.1	22115.3
62.5°	22508.3	22387.8	22932.7	25689.0	29409.9	30350.3	31090.6	30813.3	31454.7	28773.3	21731.9
65°	23431.9	23439.1	24319.4	27596.4	31980.4	32614.7	32677.4	32289.1	32170.9	28732.3	20434.5
67.5°	24681.1	24796.8	26265.4	30186.3	34481.1	34970.7	34965.8	33887.9	32694.2	27102.1	17557.6
70°	26002.5	26275.0	28508.0	33150.0	37210.9	37707.6	37452.0	34905.6	30784.4	21915.1	12426.1
72.5°	25780.7	26253.2	29754.7	35018.8	39171.3	39550.0	37888.5	32404.8	24331.4	12737.2	5290.7
75°	19889.5	20436.9	27283.0	33166.9	37114.3	36774.3	32554.3	25216.3	13296.6	3554.4	1191.3
77.5°	10506.6	10798.4	18023.0	25267.0	28939.6	28228.2	22932.7	13988.8	4053.6	880.2	535.4
80°	5502.9	5570.4	7854.1	14336.0	17861.5	17866.3	13590.8	6144.3	1671.1	451.0	359.3
82.5°	2946.8	3004.6	4150.0	6624.2	9358.8	8483.4	5203.9	3380.9	971.8	255.6	344.9
85°	709.0	721.0	2353.6	3026.3	3679.9	2628.5	1545.7	2838.2	262.9	149.5	279.7
87.5°	272.5	277.3	873.0	1309.4	938.1	607.6	723.4	1058.6	33.7	57.8	43.4
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°	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9	10677.9
2.5°	10571.8	10509.1	10354.7	10159.4	9985.7	9860.3	9672.3	9549.3	9467.3	9464.9	9433.5
5°	10304.0	10176.2	9843.5	9448.0	9088.7	8765.6	8384.6	8083.1	7858.9	7822.7	7745.5
7.5°	10017.1	9807.3	9296.1	8678.8	8075.9	7463.4	6752.0	6310.8	5932.1	5751.3	5732.0
10°	9841.1	9546.9	8821.0	7928.8	6983.5	5987.6	5056.8	4412.9	3947.5	3814.9	3716.0
12.5°	9804.9	9416.6	8454.4	7224.6	5874.2	4557.6	3528.0	2843.1	2471.7	2353.6	2322.3
15°	9841.1	9356.4	8145.8	6527.7	4750.5	3233.8	2368.0	1970.1	1830.3	1796.5	1794.1
17.5°	9862.8	9284.0	7796.1	5753.7	3660.5	2310.1	1813.4	1697.7	1675.9	1673.5	1678.4
20°	9860.3	9173.1	7379.0	4890.3	2722.5	1815.8	1639.8	1615.7	1610.8	1613.3	1610.8
22.5°	9843.5	9042.9	6920.8	4000.5	2057.0	1622.8	1565.0	1550.6	1548.1	1548.1	1548.1
25°	9874.9	8939.2	6416.9	3149.4	1695.2	1533.7	1497.5	1485.4	1483.0	1483.0	1478.2
27.5°	9988.1	8881.3	5864.7	2423.5	1531.3	1454.1	1425.2	1422.8	1415.5	1413.1	1417.9
30°	10171.5	8881.3	5259.3	1885.7	1432.3	1372.1	1350.4	1345.6	1343.2	1340.8	1343.2
32.5°	10494.5	8948.8	4598.6	1567.4	1338.4	1280.5	1266.0	1273.2	1266.0	1266.0	1266.0
35°	11078.2	9151.4	3906.5	1367.3	1239.5	1191.3	1176.8	1186.4	1181.6	1181.6	1179.2
37.5°	11929.4	9527.6	3209.6	1246.7	1152.7	1102.0	1082.7	1097.2	1092.4	1092.4	1090.0
40°	12966.3	10075.0	2546.5	1155.1	1068.3	1015.2	998.3	1005.6	993.5	993.5	998.3
42.5°	14246.7	10769.4	1967.7	1065.9	983.9	933.2	923.5	916.4	894.7	882.5	885.0
45°	15669.5	11492.9	1533.7	979.1	904.3	863.3	848.8	829.5	793.4	769.3	771.7
47.5°	16940.3	12049.9	1246.7	894.7	832.0	800.6	778.9	742.7	689.6	660.7	663.2
50°	17608.3	12134.3	1061.0	810.3	764.4	733.0	701.7	646.3	583.5	552.2	549.8
52.5°	17779.5	11738.9	923.5	733.0	696.9	660.7	619.8	545.0	475.1	441.3	436.4
55°	17842.2	11136.0	800.6	660.7	624.6	583.5	530.5	446.1	381.0	347.3	344.9
57.5°	17634.8	10236.5	704.2	595.6	552.2	501.5	436.4	356.9	294.2	267.6	267.6
60°	17174.2	9018.8	629.4	525.7	477.4	419.6	352.0	277.3	219.5	197.8	197.8
62.5°	16255.5	7441.7	559.5	453.4	407.6	347.3	284.6	209.8	154.4	142.2	144.7
65°	14521.6	5645.2	489.5	388.3	347.3	286.9	221.9	149.5	103.7	103.7	108.5
67.5°	11842.6	3921.0	417.1	330.3	299.0	233.9	168.8	103.7	72.4	82.0	91.7
70°	7839.5	2199.2	356.9	272.5	255.6	185.7	125.4	70.0	57.8	77.1	94.1
72.5°	2958.9	856.1	299.0	219.5	221.9	142.2	89.2	53.0	53.0	84.4	110.9
75°	824.7	419.6	214.6	161.5	173.6	103.7	65.1	45.8	50.7	96.4	130.2
77.5°	484.7	308.6	139.8	94.1	118.1	72.4	43.4	36.1	43.4	82.0	125.4
80°	390.7	164.0	82.0	48.3	65.1	41.0	29.0	21.7	12.0	31.4	65.1
82.5°	390.7	98.8	38.6	33.7	33.7	21.7	14.4	9.7	2.4	0.0	16.9
85°	262.9	41.0	24.1	21.7	16.9	7.3	4.8	2.4	0.0	0.0	0.0
87.5°	43.4	16.9	9.7	4.8	2.4	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)