

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: P383260

Luminaire Tested: **GLEON-SA5D-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29160.2 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

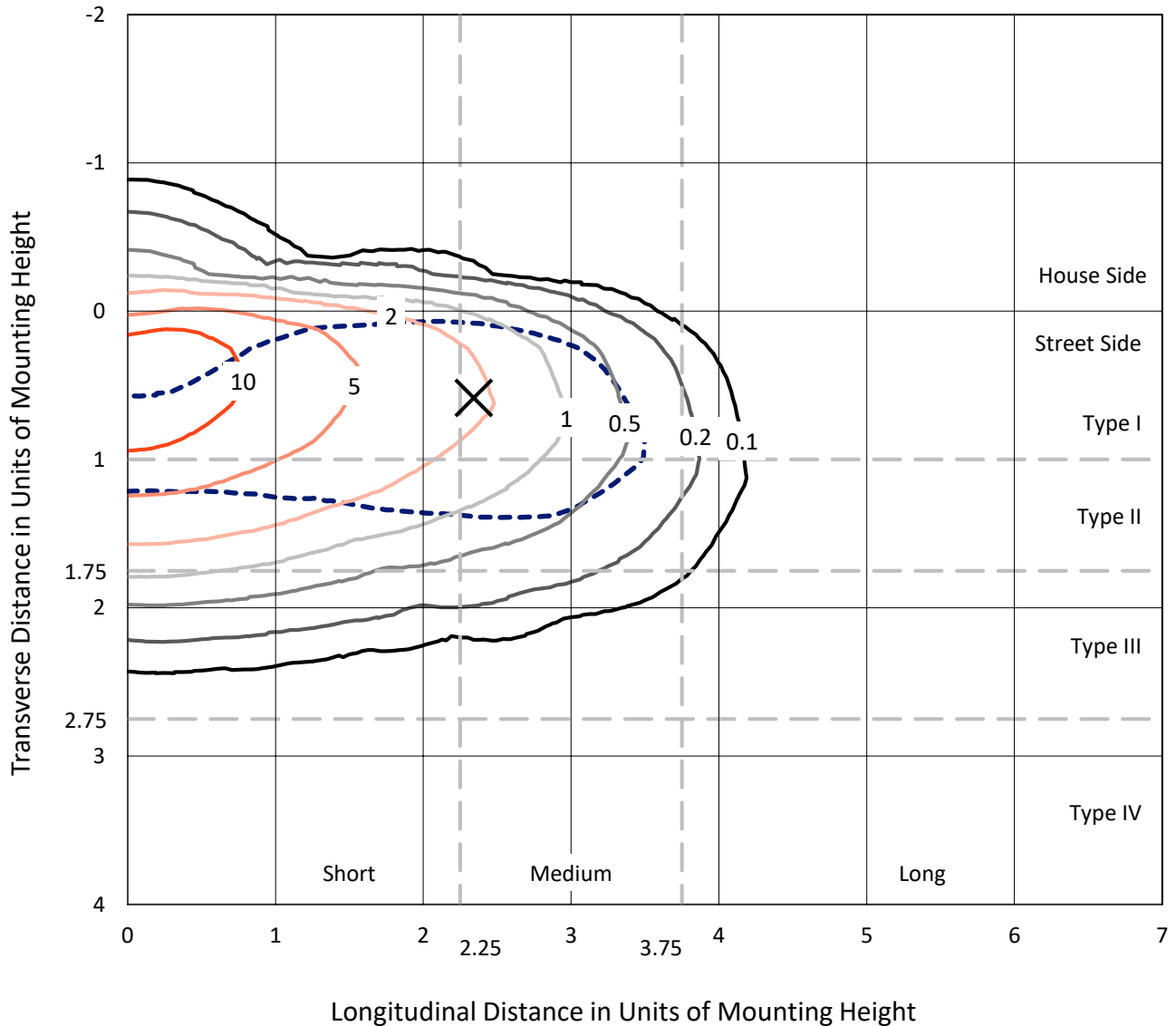
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

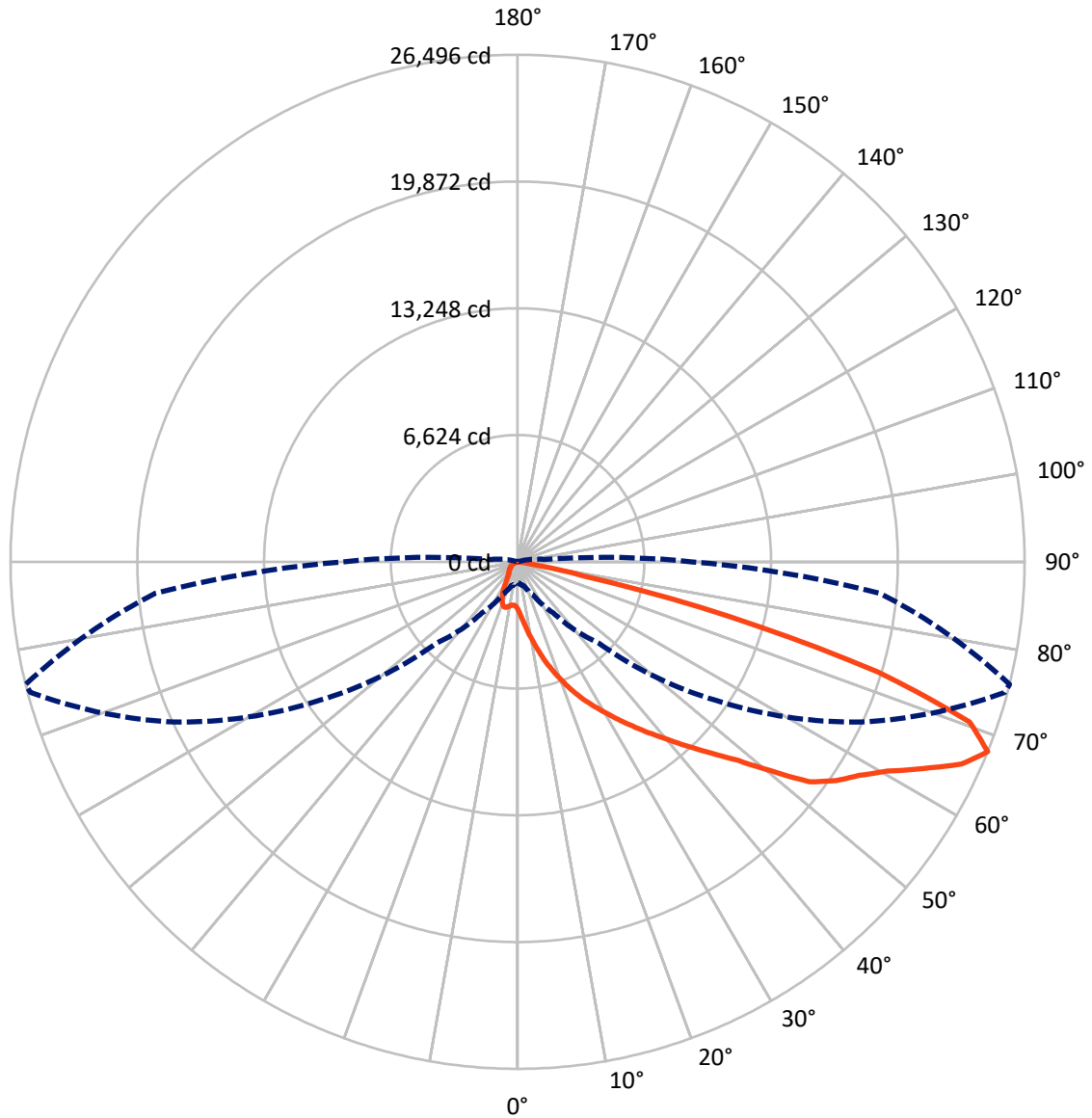
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1448.0	0.0	1448.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	27712.2	0.0	27712.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	29160.2	0.0	29160.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.6	1.1
10°-20°	1219.3	4.2
20°-30°	2481.0	8.5
30°-40°	4306.1	14.8
40°-50°	6084.0	20.9
50°-60°	6899.6	23.7
60°-70°	5722.5	19.6
70°-80°	2072.9	7.1
80°-90°	67.2	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°	29160.2	100.0
0°-180°	29160.2	100.0

**Coefficient of Utilization**

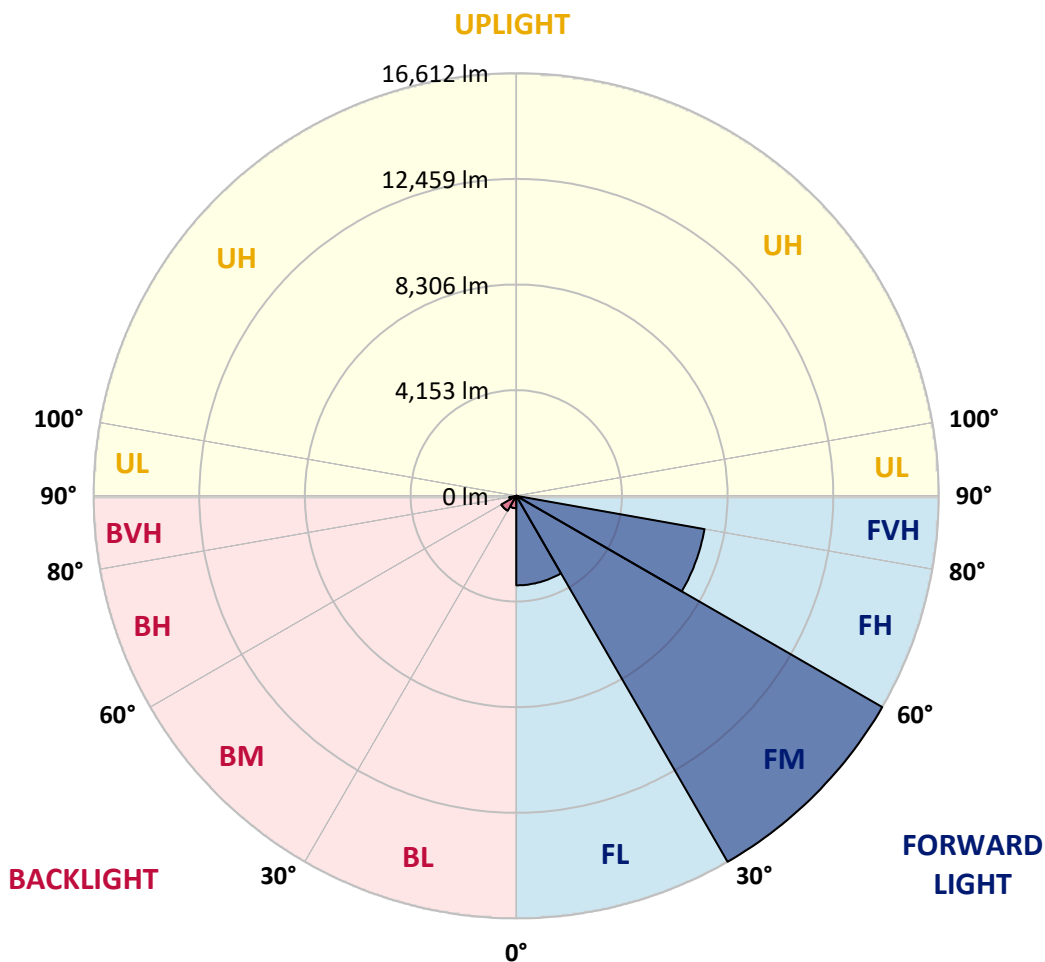


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3519.5	12.1			
FM (30°-60°)	16612.0	57.0			
FH (60°-80°)	7515.6	25.8			G4/12000
FVH (80°-90°)	65.1	0.2			G1/100
BL (0°-30°)	488.3	1.7	B1/500		
BM (30°-60°)	677.7	2.3	B1/1000		
BH (60°-80°)	279.8	1.0	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6
2.5°	3692.6	3609.5	3628.7	3575.0	3477.9	3278.6	3108.7	2947.7	2759.8	2753.5	2598.8
5°	4979.2	4909.0	4900.0	4791.4	4615.1	4276.5	3946.8	3571.2	3152.1	3121.4	2793.1
7.5°	6147.0	6090.8	6070.3	5941.3	5612.9	5283.3	4854.0	4302.0	3646.5	3590.4	3055.0
10°	7044.0	7017.2	7022.3	6930.2	6649.2	6342.5	5779.0	5075.1	4207.5	4120.6	3369.3
12.5°	7723.7	7730.1	7776.1	7719.9	7562.7	7335.3	6733.5	5899.1	4828.4	4709.6	3728.3
15°	8223.3	8255.3	8339.6	8409.8	8398.4	8201.5	7649.6	6736.0	5487.7	5356.1	4128.2
17.5°	8546.6	8582.3	8705.0	8860.9	9004.0	8957.9	8533.8	7543.6	6154.7	6002.6	4556.3
20°	8830.2	8872.3	9004.0	9209.7	9476.7	9534.2	9255.7	8326.8	6820.4	6635.1	4998.4
22.5°	9444.8	9443.5	9524.0	9644.1	9898.3	10046.6	9870.2	9053.8	7478.4	7285.4	5449.4
25°	10556.4	10514.2	10486.2	10391.6	10447.8	10539.8	10441.3	9733.6	8140.2	7944.8	5906.9
27.5°	11877.5	11903.0	11675.6	11421.4	11224.6	11130.0	10969.1	10363.5	8776.6	8561.9	6354.0
30°	13271.5	13279.1	13010.8	12686.3	12253.2	11894.1	11615.6	10965.2	9430.7	9196.9	6788.5
32.5°	14528.8	14479.0	14213.2	13771.1	13224.2	12820.4	12241.7	11637.4	10123.2	9897.0	7271.4
35°	15525.4	15466.6	15143.3	14740.9	14173.6	13767.2	13070.9	12308.1	10851.5	10630.4	7755.7
37.5°	16253.6	16184.6	15852.4	15438.4	14949.1	14712.8	14033.0	13037.7	11646.3	11408.6	8265.4
40°	16506.7	16446.6	16238.4	15935.5	15541.9	15488.3	15053.9	13877.2	12511.2	12258.2	8843.0
42.5°	16355.8	16297.1	16223.0	16120.8	15957.2	16008.4	16017.3	14834.2	13472.1	13222.9	9480.5
45°	15757.9	15705.5	15782.2	15931.7	16134.9	16387.8	16896.3	15862.7	14545.4	14279.6	10217.8
47.5°	14877.6	14839.3	15051.3	15424.5	16018.5	16716.2	17700.1	16943.6	15750.2	15503.7	11137.8
50°	13625.5	13619.0	14043.3	14724.2	15637.8	16874.6	18530.5	18172.7	17424.0	17164.7	12416.7
52.5°	11675.6	11688.4	12522.8	13612.6	14969.6	16767.3	19064.6	19752.0	19371.3	19101.7	13524.5
55°	9819.2	9895.8	10487.4	12059.0	13944.8	16368.7	19248.6	20489.2	20445.8	20190.3	14140.3
57.5°	8001.0	8140.2	8710.1	10178.2	12448.6	15450.0	19147.7	20808.6	21245.6	21050.2	14952.9
60°	6030.7	6094.7	6751.4	8123.7	10528.3	13773.7	18415.5	20982.5	22339.3	22203.9	16132.3
62.5°	3837.0	3996.6	4579.3	5903.0	8197.7	11445.6	17181.3	20979.8	23707.8	23781.9	17654.0
65°	2021.4	2207.9	2517.0	3658.1	5633.3	8845.5	15324.8	20783.1	25386.7	25490.1	18843.5
67.5°	1089.9	1143.6	1307.1	1898.7	3267.1	5992.5	12596.9	19812.1	26359.0	26495.7	19009.6
70°	797.3	826.7	888.0	1050.2	1644.4	3480.4	9191.8	17610.5	25105.6	25054.4	16890.0
72.5°	612.0	658.0	704.0	769.2	945.5	1857.8	5722.9	13790.3	20031.8	19694.5	12625.0
75°	483.0	490.6	555.8	614.5	709.1	1058.0	2541.4	8031.6	12226.4	11427.8	6546.9
77.5°	385.8	391.0	429.4	480.4	569.8	695.0	787.1	3159.7	3903.4	3483.1	1420.8
80°	228.7	241.5	319.4	370.6	472.8	438.3	287.5	686.1	609.4	551.9	238.9
82.5°	127.8	138.0	180.2	292.6	329.7	209.5	143.1	185.3	143.1	139.3	67.7
85°	0.0	6.4	116.3	181.5	134.1	46.0	60.1	61.3	42.2	39.6	26.8
87.5°	0.0	0.0	35.8	34.5	5.1	7.6	14.1	20.4	16.6	16.6	14.1
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°	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6	2473.6
2.5°	2522.2	2453.2	2322.9	2195.1	2087.8	1999.6	1920.4	1888.4	1862.9	1859.1	1838.6
5°	2634.6	2495.3	2246.2	2041.8	1905.0	1807.9	1724.9	1673.8	1634.2	1618.8	1604.8
7.5°	2804.5	2593.7	2236.0	2000.9	1837.3	1673.8	1520.5	1354.4	1250.9	1211.3	1188.3
10°	3011.5	2724.0	2274.3	1989.4	1703.1	1358.2	1104.0	893.1	807.5	779.4	771.7
12.5°	3253.1	2886.3	2340.8	1917.9	1417.0	964.7	761.5	690.0	670.8	661.9	661.9
15°	3530.3	3064.0	2388.0	1710.9	1047.7	729.6	659.3	626.1	605.6	594.1	595.4
17.5°	3813.9	3237.7	2365.0	1410.5	773.0	649.1	596.7	560.9	532.8	521.3	518.8
20°	4100.1	3398.7	2237.3	1050.2	654.2	589.0	530.2	490.6	462.5	451.1	448.4
22.5°	4396.5	3535.4	2012.4	770.5	587.7	522.6	465.1	425.4	398.6	388.5	383.3
25°	4685.3	3646.5	1698.0	623.5	525.1	460.0	405.0	368.0	343.7	333.5	332.2
27.5°	4954.9	3716.9	1333.9	550.7	470.2	403.7	353.9	320.7	300.2	292.6	291.3
30°	5197.7	3723.2	986.4	497.0	421.6	355.2	309.2	279.8	262.0	254.2	251.7
32.5°	5443.0	3669.6	718.0	448.4	376.9	313.0	268.3	245.3	232.5	226.2	226.2
35°	5674.2	3545.7	559.7	406.3	333.5	272.1	236.3	219.8	212.1	205.7	205.7
37.5°	5900.4	3368.0	475.3	369.3	292.6	237.6	208.3	198.0	191.6	185.3	185.3
40°	6130.4	3144.4	431.9	334.8	259.3	210.8	185.3	176.3	169.9	164.8	163.6
42.5°	6412.8	2886.3	403.7	302.8	230.0	186.6	163.6	153.3	148.2	143.1	140.6
45°	6739.8	2664.0	380.7	270.9	205.7	166.1	141.8	131.6	123.9	117.6	116.3
47.5°	7211.4	2503.0	350.1	236.3	182.7	144.4	122.7	111.1	99.7	93.2	92.0
50°	7813.2	2370.1	310.5	205.7	159.7	122.7	102.2	88.1	78.0	71.5	71.5
52.5°	8112.1	2196.4	274.7	178.9	134.1	103.5	83.1	66.4	61.3	55.0	55.0
55°	8232.3	2063.5	238.9	152.0	111.1	85.6	65.2	51.1	47.2	43.4	42.2
57.5°	8569.6	2025.2	208.3	129.0	92.0	67.7	49.8	38.3	35.8	30.6	30.6
60°	9112.6	2044.3	180.2	109.9	74.2	52.4	37.1	29.3	26.8	21.7	21.7
62.5°	9699.1	2020.1	152.0	94.6	57.5	38.3	25.5	21.7	21.7	12.8	11.5
65°	9811.5	1799.0	130.3	78.0	44.7	28.1	16.6	14.1	19.2	2.5	0.0
67.5°	9106.2	1395.3	112.4	60.1	33.3	21.7	12.8	6.4	16.6	0.0	0.0
70°	7281.6	886.7	90.7	43.4	25.5	17.9	10.2	2.5	12.8	0.0	0.0
72.5°	5149.1	515.0	71.5	30.6	21.7	14.1	7.6	0.0	7.6	0.0	0.0
75°	2604.0	274.7	44.7	23.0	16.6	10.2	5.1	0.0	1.3	0.0	0.0
77.5°	563.5	127.8	28.1	16.6	11.5	6.4	2.5	0.0	0.0	0.0	0.0
80°	122.7	56.3	17.9	10.2	6.4	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	44.7	29.3	8.9	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.3	15.4	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	5.1	1.3	1.3	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)