

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: P383512

Luminaire Tested: **GLEON-SA8A-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383512  
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-SA8A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA 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: 28082.4 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

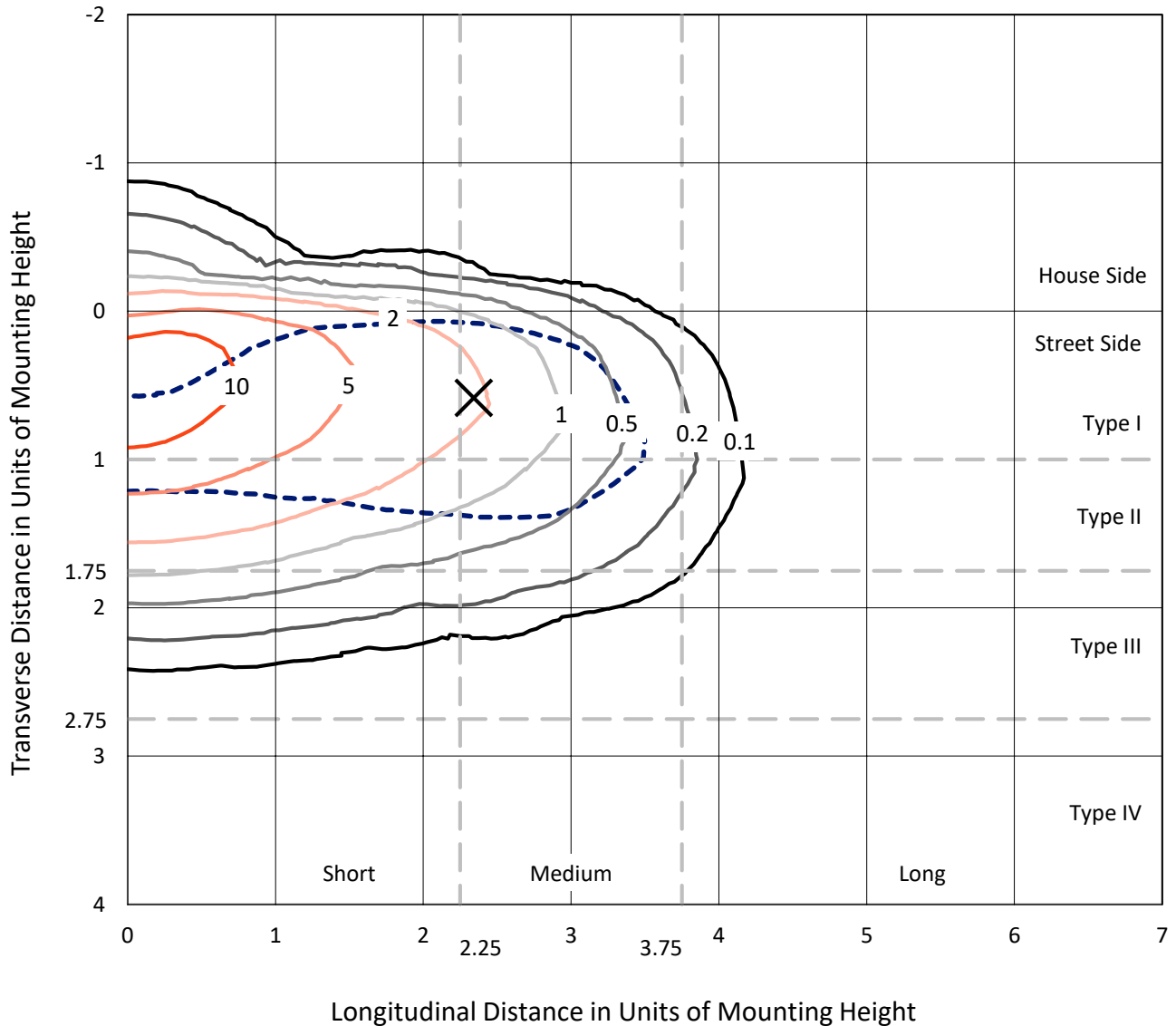
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383512  
 CATALOG NUMBER: GLEON-SA8A-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

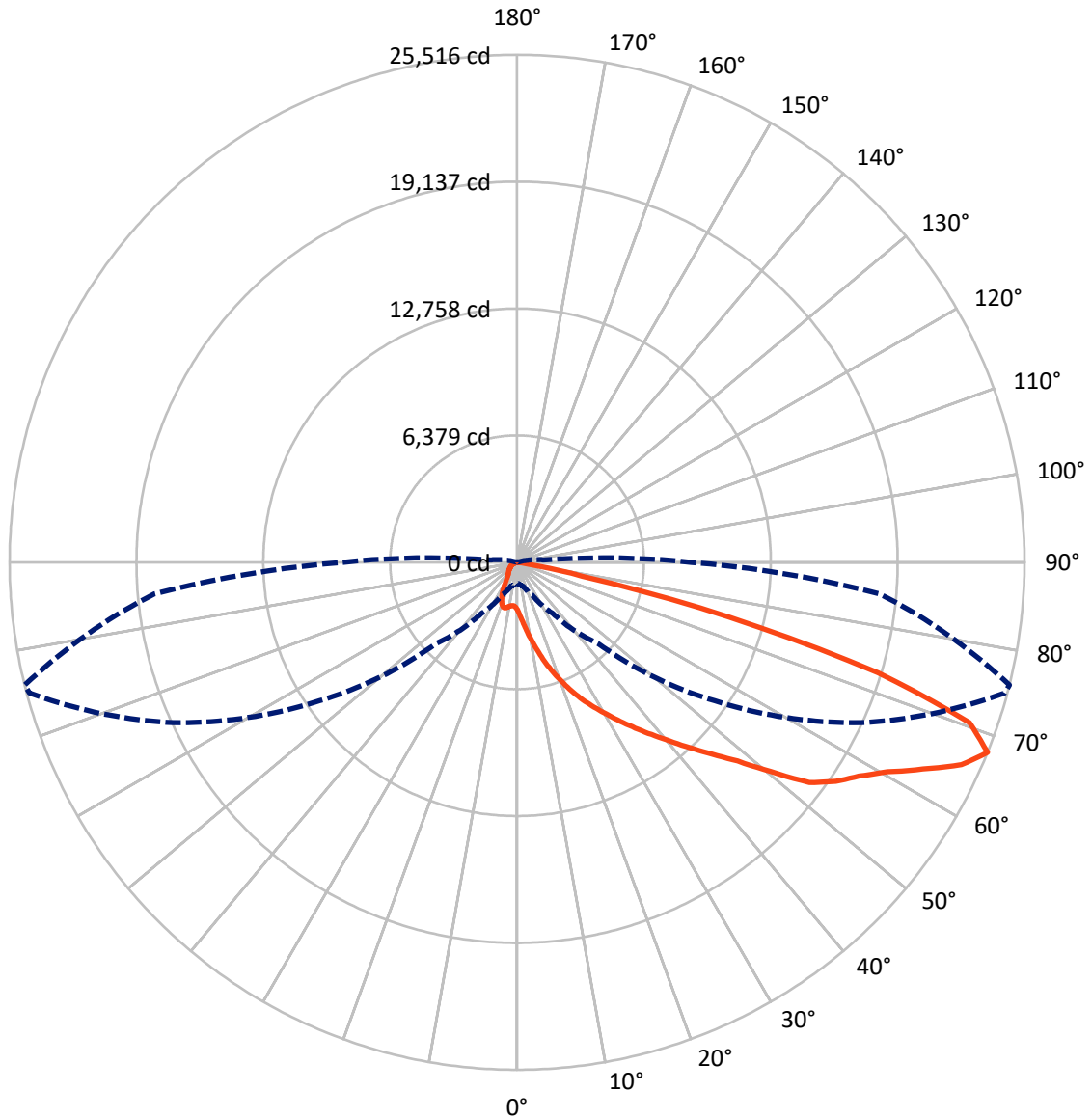
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P383512  
CATALOG NUMBER: GLEON-SA8A-735-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P383512  
 CATALOG NUMBER: GLEON-SA8A-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1394.5	0.0	1394.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	26687.9	0.0	26687.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	28082.4	0.0	28082.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.2	1.1
10°-20°	1174.3	4.2
20°-30°	2389.3	8.5
30°-40°	4147.0	14.8
40°-50°	5859.1	20.9
50°-60°	6644.5	23.7
60°-70°	5511.0	19.6
70°-80°	1996.3	7.1
80°-90°	64.7	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°	28082.4	100.0
0°-180°	28082.4	100.0

**Coefficient of Utilization**



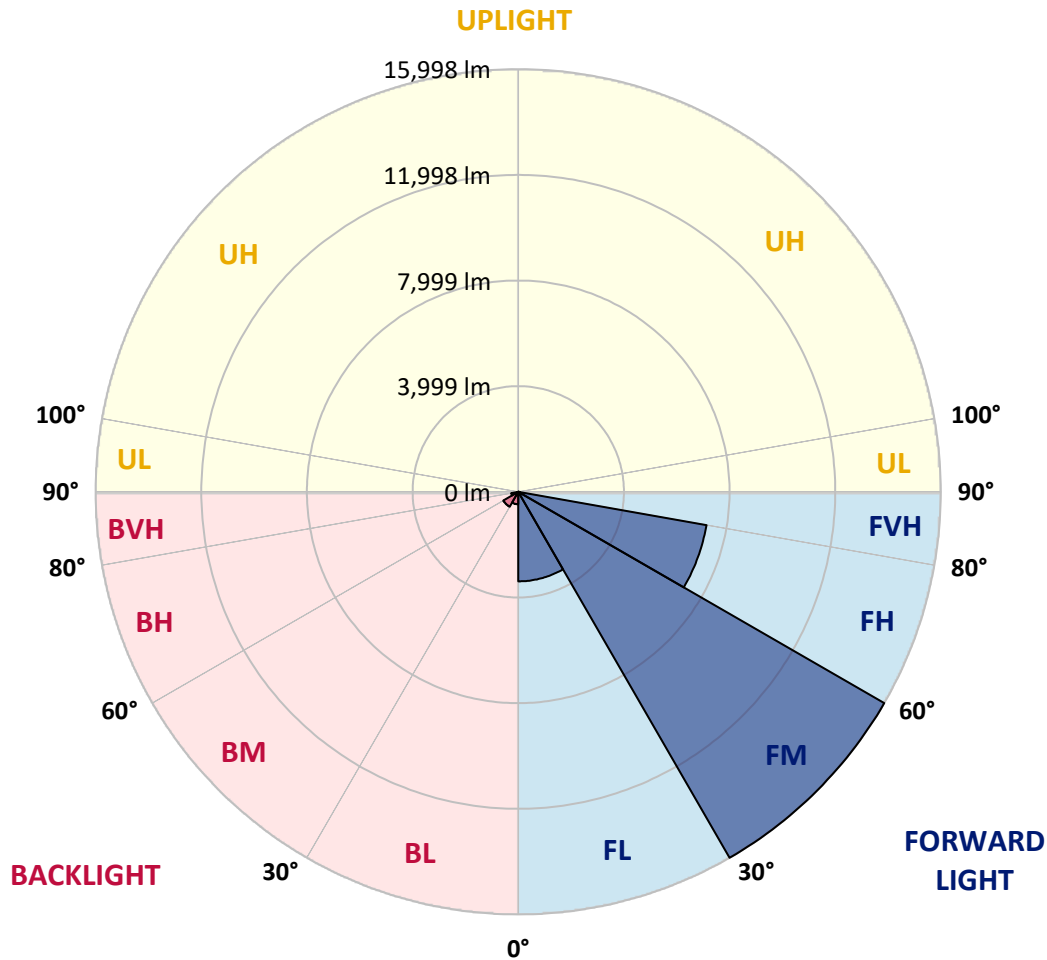
REPORT NUMBER: P383512  
 CATALOG NUMBER: GLEON-SA8A-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3389.5	12.1			
FM (30°-60°)	15998.0	57.0			
FH (60°-80°)	7237.8	25.8			G3/7500
FVH (80°-90°)	62.7	0.2			G1/100
BL (0°-30°)	470.3	1.7	B1/500		
BM (30°-60°)	652.7	2.3	B1/1000		
BH (60°-80°)	269.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3**

Type II Medium





REPORT NUMBER: P383512

CATALOG NUMBER: GLEON-SA8A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2
2.5°	3556.1	3476.1	3494.5	3442.9	3349.4	3157.4	2993.7	2838.7	2657.8	2651.7	2502.8
5°	4795.1	4727.5	4718.8	4614.3	4444.5	4118.4	3800.9	3439.2	3035.5	3006.0	2689.8
7.5°	5919.8	5865.7	5846.0	5721.8	5405.5	5088.0	4674.6	4143.1	3511.7	3457.6	2942.1
10°	6783.6	6757.8	6762.7	6674.1	6403.4	6108.1	5565.4	4887.5	4052.0	3968.3	3244.8
12.5°	7438.2	7444.4	7488.7	7434.6	7283.2	7064.2	6484.6	5681.1	4650.0	4535.5	3590.6
15°	7919.4	7950.1	8031.3	8099.0	8087.9	7898.4	7366.9	6487.1	5284.9	5158.2	3975.7
17.5°	8230.7	8265.2	8383.3	8533.3	8671.2	8626.9	8218.4	7264.8	5927.3	5780.8	4387.9
20°	8503.8	8544.4	8671.2	8869.3	9126.5	9181.8	8913.6	8019.0	6568.2	6389.9	4813.6
22.5°	9095.7	9094.4	9172.0	9287.6	9532.5	9675.2	9505.4	8719.2	7202.0	7016.1	5248.0
25°	10166.2	10125.5	10098.5	10007.4	10061.6	10150.2	10055.5	9373.8	7839.3	7651.1	5688.5
27.5°	11438.5	11463.2	11244.1	10999.2	10809.8	10718.7	10563.7	9980.4	8452.1	8245.4	6119.1
30°	12780.9	12788.4	12530.0	12217.4	11800.3	11454.5	11186.3	10559.9	9082.1	8857.0	6537.5
32.5°	13991.8	13943.8	13687.8	13262.1	12735.5	12346.6	11789.2	11207.2	9749.1	9531.3	7002.6
35°	14951.5	14894.9	14583.7	14196.0	13649.7	13258.4	12587.8	11853.2	10450.5	10237.6	7469.0
37.5°	15652.9	15586.5	15266.6	14867.9	14396.6	14168.9	13514.3	12555.8	11215.8	10987.0	7960.0
40°	15896.6	15838.7	15638.2	15346.5	14967.5	14915.8	14497.5	13364.2	12048.8	11805.2	8516.1
42.5°	15751.4	15694.7	15623.4	15524.9	15367.5	15416.6	15425.2	14285.8	12974.1	12734.2	9130.1
45°	15175.5	15125.0	15198.9	15342.8	15538.5	15782.1	16271.8	15276.4	14007.8	13751.8	9840.1
47.5°	14327.7	14290.8	14495.1	14854.4	15426.5	16098.4	17045.8	16317.4	15168.1	14930.6	10726.0
50°	13121.8	13115.6	13524.2	14180.0	15059.8	16250.9	17845.6	17501.1	16780.1	16530.2	11957.8
52.5°	11244.1	11256.4	12059.9	13109.5	14416.3	16147.5	18360.0	19021.9	18655.3	18395.6	13024.6
55°	9456.2	9530.0	10099.7	11613.2	13429.5	15763.6	18537.1	19731.9	19690.1	19444.0	13617.7
57.5°	7705.2	7839.3	8388.1	9802.0	11988.6	14879.0	18439.9	20039.5	20460.4	20272.2	14400.2
60°	5807.8	5869.4	6501.8	7823.4	10139.2	13264.6	17734.9	20206.9	21513.6	21383.2	15536.0
62.5°	3695.1	3849.0	4410.0	5684.8	7894.8	11022.6	16546.2	20204.4	22831.5	22902.8	17001.5
65°	1946.7	2126.3	2424.1	3522.8	5425.1	8518.6	14758.3	20015.0	24448.4	24548.0	18147.1
67.5°	1049.6	1101.3	1258.8	1828.5	3146.3	5770.9	12131.3	19079.8	25384.8	25516.4	18307.1
70°	767.8	796.1	855.2	1011.5	1583.6	3351.8	8852.0	16959.7	24177.7	24128.4	16265.7
72.5°	589.4	633.7	678.0	740.8	910.6	1789.1	5511.3	13280.5	19291.4	18966.6	12158.4
75°	465.1	472.5	535.3	591.9	682.9	1018.8	2447.5	7734.7	11774.5	11005.4	6305.0
77.5°	371.6	376.5	413.4	462.7	548.8	669.4	758.0	3043.0	3759.1	3354.3	1368.3
80°	220.2	232.5	307.6	356.9	455.2	422.1	276.9	660.7	587.0	531.5	230.1
82.5°	123.1	132.9	173.5	281.8	317.5	201.8	137.8	178.4	137.8	134.1	65.2
85°	0.0	6.1	112.0	174.8	129.2	44.3	57.8	59.1	40.6	38.1	25.8
87.5°	0.0	0.0	34.5	33.3	4.9	7.4	13.5	19.7	16.0	16.0	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383512

CATALOG NUMBER: GLEON-SA8A-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2
2.5°	2428.9	2362.5	2237.0	2114.0	2010.6	1925.7	1849.4	1818.7	1794.1	1790.3	1770.7
5°	2537.3	2403.1	2163.1	1966.3	1834.7	1741.2	1661.1	1611.9	1573.8	1559.0	1545.4
7.5°	2700.9	2497.9	2153.4	1926.9	1769.4	1611.9	1464.3	1304.3	1204.7	1166.5	1144.3
10°	2900.3	2623.3	2190.3	1915.8	1640.3	1308.0	1063.2	860.1	777.7	750.5	743.2
12.5°	3132.8	2779.6	2254.3	1847.0	1364.6	929.0	733.4	664.5	646.0	637.4	637.4
15°	3399.8	2950.7	2299.8	1647.6	1009.0	702.6	634.9	602.9	583.2	572.2	573.4
17.5°	3673.0	3118.0	2277.6	1358.5	744.4	625.1	574.7	540.2	513.1	502.0	499.6
20°	3948.6	3273.1	2154.6	1011.5	630.0	567.2	510.7	472.5	445.5	434.4	431.9
22.5°	4234.1	3404.7	1938.0	742.0	566.0	503.2	447.9	409.8	383.9	374.1	369.2
25°	4512.1	3511.7	1635.3	600.5	505.7	443.0	390.0	354.4	331.0	321.2	319.9
27.5°	4771.8	3579.5	1284.6	530.3	452.8	388.8	340.9	308.8	289.2	281.8	280.6
30°	5005.6	3585.6	949.9	478.6	406.1	342.1	297.8	269.5	252.3	244.9	242.4
32.5°	5241.8	3533.9	691.5	431.9	363.0	301.4	258.4	236.2	223.9	217.8	217.8
35°	5464.6	3414.6	539.0	391.2	321.2	262.1	227.7	211.6	204.3	198.1	198.1
37.5°	5682.3	3243.6	457.8	355.6	281.8	228.9	200.6	190.7	184.5	178.4	178.4
40°	5903.9	3028.2	415.9	322.4	249.7	203.0	178.4	169.8	163.7	158.7	157.5
42.5°	6175.8	2779.6	388.8	291.7	221.5	179.7	157.5	147.7	142.7	137.8	135.4
45°	6490.7	2565.6	366.7	260.8	198.1	159.9	136.6	126.8	119.3	113.2	112.0
47.5°	6944.8	2410.5	337.1	227.7	176.0	139.1	118.1	107.0	95.9	89.8	88.6
50°	7524.4	2282.6	299.0	198.1	153.8	118.1	98.5	84.9	75.1	68.9	68.9
52.5°	7812.3	2115.2	264.6	172.2	129.2	99.7	80.0	64.0	59.1	52.9	52.9
55°	7927.9	1987.2	230.1	146.4	107.0	82.4	62.8	49.2	45.6	41.8	40.6
57.5°	8252.8	1950.3	200.6	124.3	88.6	65.2	48.0	36.9	34.5	29.5	29.5
60°	8775.7	1968.7	173.5	105.8	71.4	50.5	35.7	28.3	25.8	21.0	21.0
62.5°	9340.5	1945.4	146.4	91.0	55.3	36.9	24.6	21.0	21.0	12.3	11.1
65°	9448.9	1732.5	125.5	75.1	43.0	27.1	16.0	13.5	18.4	2.4	0.0
67.5°	8769.6	1343.7	108.2	57.8	32.0	21.0	12.3	6.1	16.0	0.0	0.0
70°	7012.5	853.9	87.4	41.8	24.6	17.2	9.9	2.4	12.3	0.0	0.0
72.5°	4958.8	495.9	68.9	29.5	21.0	13.5	7.4	0.0	7.4	0.0	0.0
75°	2507.7	264.6	43.0	22.2	16.0	9.9	4.9	0.0	1.2	0.0	0.0
77.5°	542.6	123.1	27.1	16.0	11.1	6.1	2.4	0.0	0.0	0.0	0.0
80°	118.1	54.1	17.2	9.9	6.1	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	43.0	28.3	8.6	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.4	14.8	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	4.9	1.2	1.2	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)