

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: P383148

Luminaire Tested: **GLEON-SA4D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383148
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-SA4D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 23535.5 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 258
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

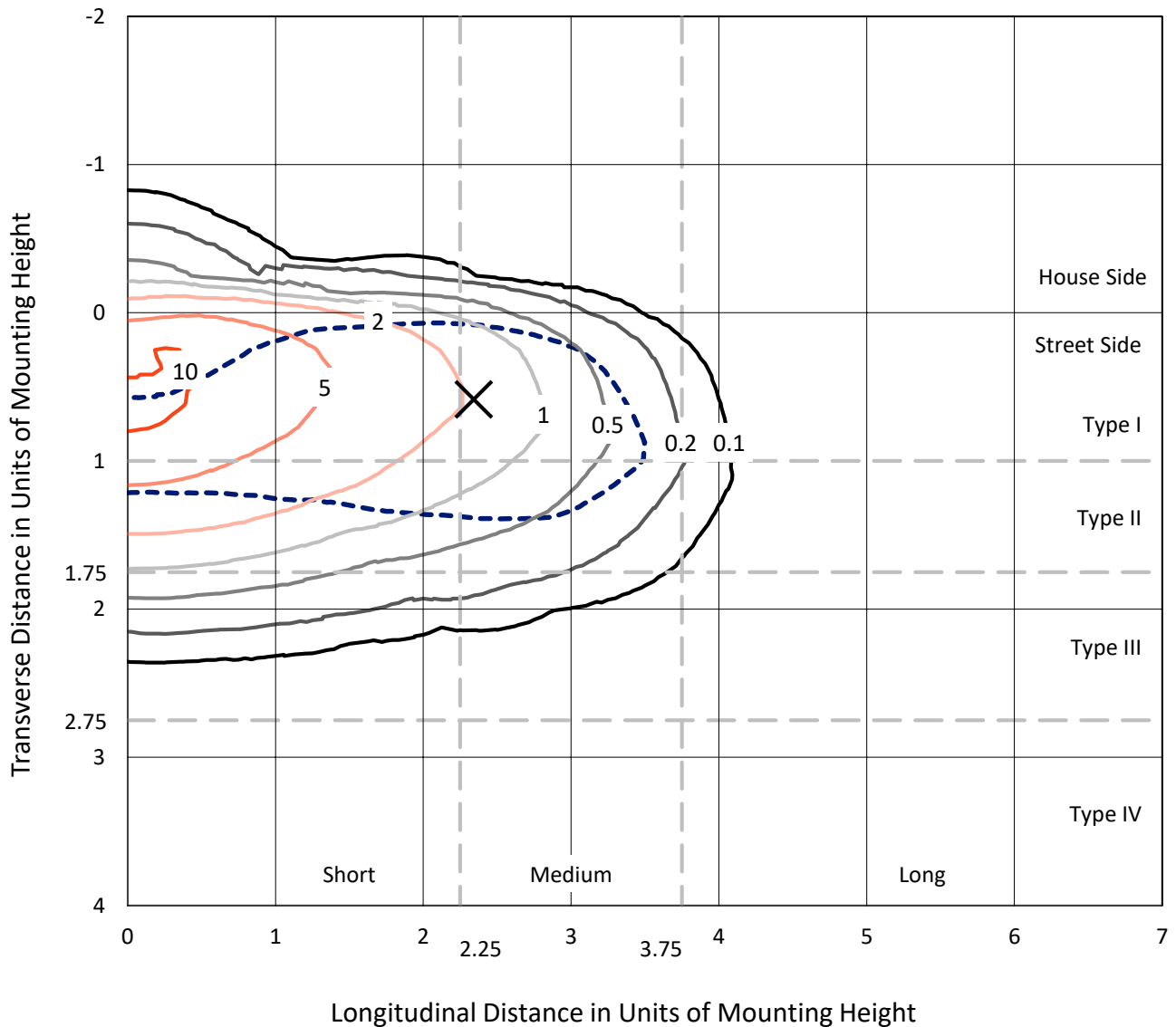




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Iso-Footcandle Lines of Horizontal Illumination

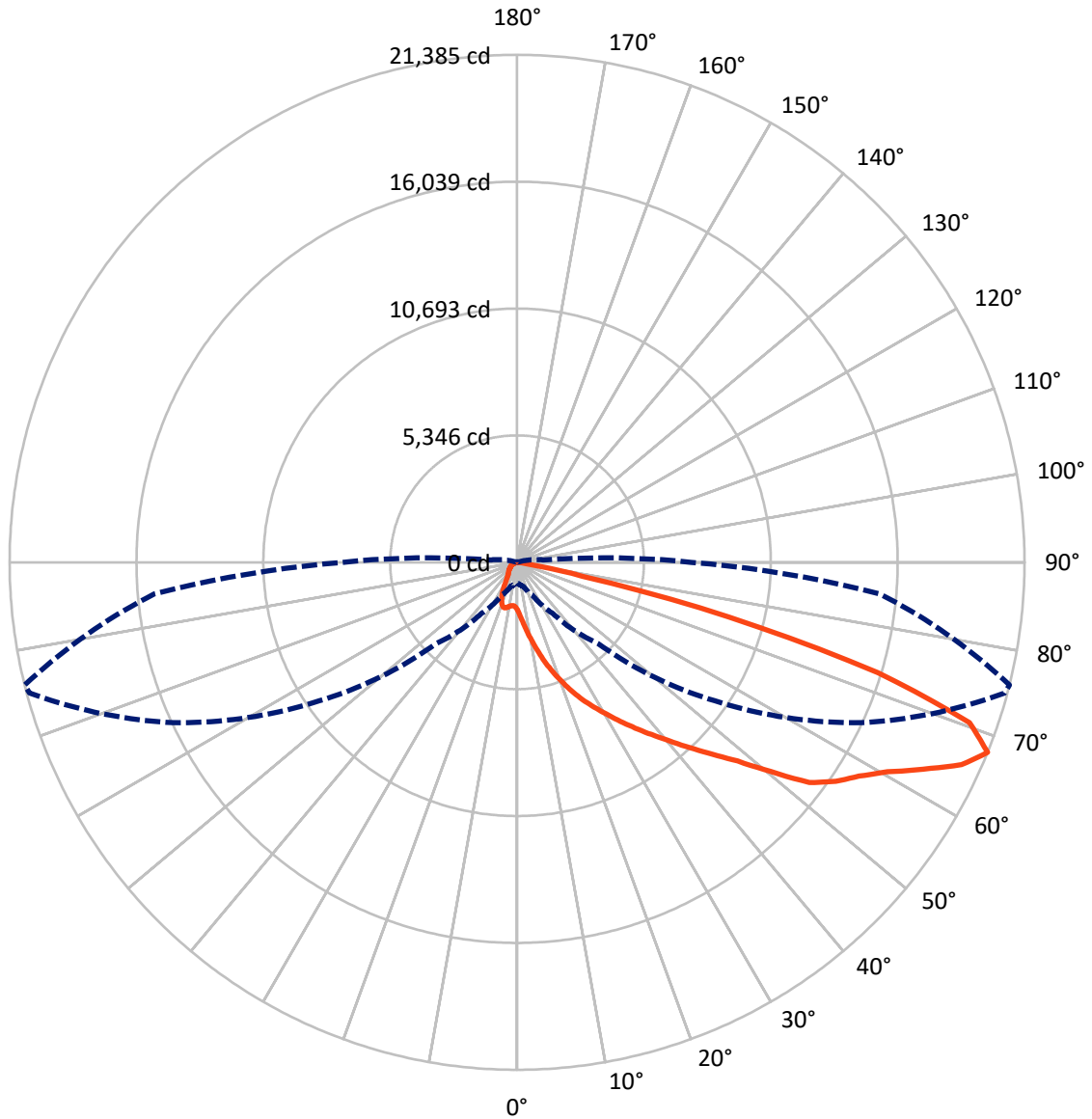
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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
House Side	Lumens	1168.7	0.0	1168.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22366.8	0.0	22366.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	23535.5	0.0	23535.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.1
10°-20°	984.1	4.2
20°-30°	2002.4	8.5
30°-40°	3475.5	14.8
40°-50°	4910.5	20.9
50°-60°	5568.7	23.7
60°-70°	4618.7	19.6
70°-80°	1673.0	7.1
80°-90°	54.2	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°	23535.5	100.0
0°-180°	23535.5	100.0

Coefficient of Utilization

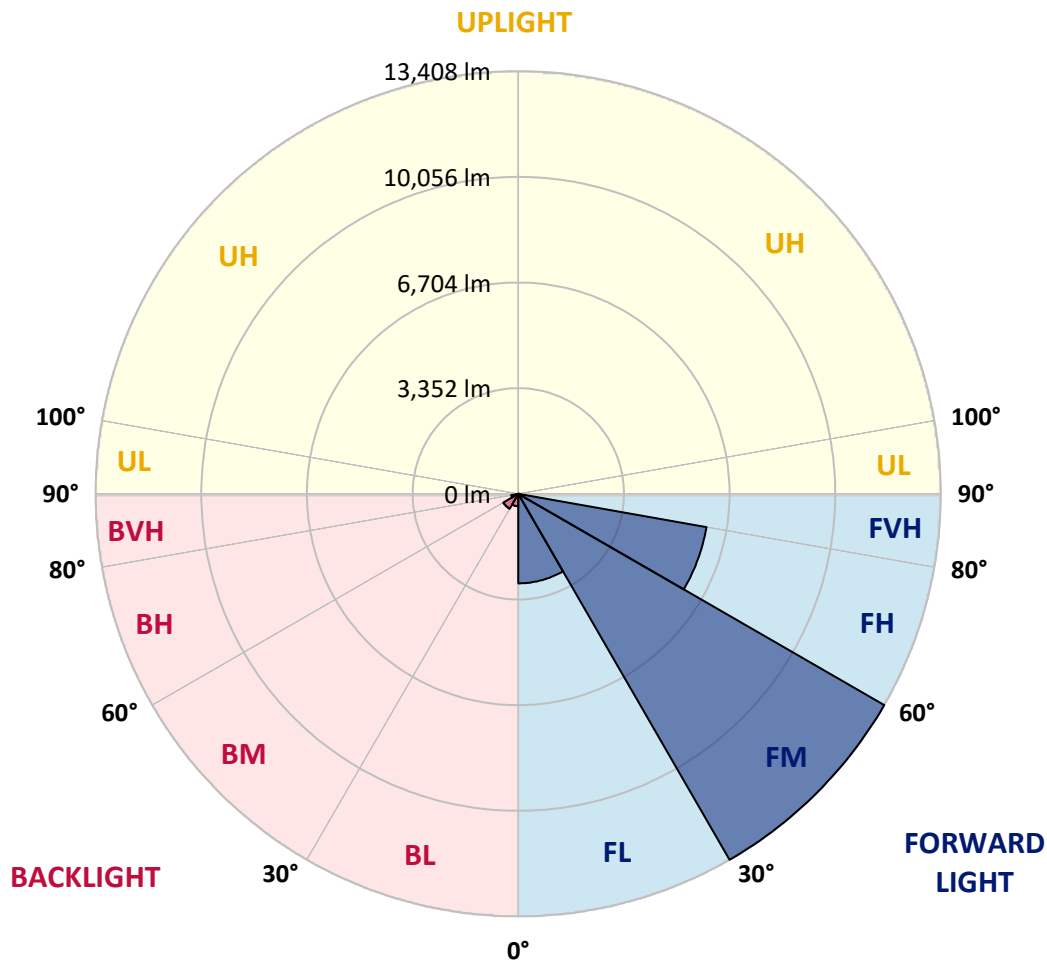


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2840.7	12.1			
FM (30°-60°)	13407.7	57.0			
FH (60°-80°)	6065.9	25.8			G3/7500
FVH (80°-90°)	52.5	0.2			G1/100
BL (0°-30°)	394.1	1.7	B1/500		
BM (30°-60°)	547.0	2.3	B1/1000		
BH (60°-80°)	225.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	2980.3	2913.3	2928.8	2885.5	2807.0	2646.2	2509.0	2379.1	2227.5	2222.3	2097.6
5°	4018.8	3962.1	3954.8	3867.2	3724.9	3451.6	3185.5	2882.3	2544.1	2519.4	2254.3
7.5°	4961.3	4916.0	4899.5	4795.3	4530.3	4264.3	3917.7	3472.3	2943.2	2897.8	2465.7
10°	5685.2	5663.6	5667.7	5593.5	5366.6	5119.1	4664.4	4096.1	3395.9	3325.8	2719.4
12.5°	6233.9	6239.0	6276.2	6230.8	6104.0	5920.4	5434.6	4761.2	3897.1	3801.2	3009.2
15°	6637.1	6662.9	6731.0	6787.6	6778.4	6619.6	6174.1	5436.7	4429.2	4323.0	3332.0
17.5°	6898.0	6926.9	7025.9	7151.7	7267.2	7230.1	6887.7	6088.5	4967.5	4844.8	3677.5
20°	7127.0	7161.0	7267.2	7433.2	7648.8	7695.1	7470.4	6720.7	5504.8	5355.3	4034.3
22.5°	7622.9	7621.9	7686.9	7783.8	7989.0	8108.7	7966.4	7307.4	6035.9	5880.2	4398.3
25°	8520.2	8486.1	8463.5	8387.1	8432.6	8506.8	8427.3	7856.0	6570.1	6412.3	4767.5
27.5°	9586.5	9607.1	9423.5	9218.3	9059.5	8983.2	8853.2	8364.5	7083.7	6910.4	5128.4
30°	10711.6	10717.7	10501.2	10239.3	9889.7	9599.9	9375.1	8850.2	7611.7	7422.9	5479.0
32.5°	11726.3	11686.1	11471.6	11114.8	10673.4	10347.5	9880.4	9392.6	8170.6	7988.0	5868.8
35°	12530.7	12483.3	12222.4	11897.5	11439.6	11111.7	10549.7	9934.0	8758.4	8580.0	6259.7
37.5°	13118.5	13062.8	12794.7	12460.6	12065.6	11874.8	11326.2	10522.9	9399.8	9208.0	6671.2
40°	13322.7	13274.2	13106.1	12861.7	12544.1	12500.8	12150.2	11200.4	10098.0	9893.8	7137.2
42.5°	13201.0	13153.5	13093.7	13011.3	12879.3	12920.5	12927.7	11972.8	10873.5	10672.4	7651.8
45°	12718.4	12676.1	12738.0	12858.6	13022.6	13226.8	13637.2	12802.9	11739.7	11525.2	8246.9
47.5°	12007.8	11976.9	12148.1	12449.2	12928.8	13491.8	14285.8	13675.4	12712.2	12513.2	8989.4
50°	10997.2	10992.1	11334.4	11884.1	12621.4	13619.7	14956.2	14667.4	14063.1	13853.8	10021.7
52.5°	9423.5	9433.9	10107.3	10987.0	12082.1	13533.1	15387.2	15942.0	15634.7	15417.1	10915.8
55°	7925.1	7987.0	8464.5	9732.9	11255.1	13211.3	15535.8	16537.1	16502.0	16295.7	11412.9
57.5°	6457.7	6570.1	7030.0	8214.9	10047.5	12469.9	15454.3	16794.9	17147.6	16989.8	12068.7
60°	4867.5	4919.0	5449.1	6556.7	8497.5	11116.8	14863.4	16935.2	18030.4	17921.0	13020.5
62.5°	3096.8	3225.8	3696.0	4764.4	6616.5	9237.9	13867.2	16933.1	19134.8	19194.6	14248.8
65°	1631.4	1782.0	2031.5	2952.4	4546.8	7139.3	12368.8	16774.3	20489.9	20573.4	15208.8
67.5°	879.7	923.0	1055.0	1532.4	2636.9	4836.6	10167.1	15990.6	21274.7	21385.0	15342.9
70°	643.5	667.2	716.7	847.7	1327.2	2809.1	7418.8	14213.6	20263.0	20221.8	13632.1
72.5°	494.0	531.1	568.2	620.8	763.1	1499.4	4619.0	11130.2	16167.9	15895.6	10189.7
75°	389.9	396.0	448.6	496.0	572.3	853.9	2051.2	6482.5	9868.0	9223.4	5284.1
77.5°	311.4	315.6	346.5	387.7	459.9	561.0	635.2	2550.3	3150.5	2811.2	1146.7
80°	184.6	194.9	257.9	299.0	381.6	353.7	232.0	553.8	492.0	445.5	192.8
82.5°	103.1	111.4	145.4	236.1	266.0	169.2	115.5	149.5	115.5	112.4	54.7
85°	0.0	5.1	93.8	146.4	108.2	37.2	48.4	49.5	34.0	32.0	21.6
87.5°	0.0	0.0	28.9	27.9	4.1	6.1	11.4	16.5	13.4	13.4	11.4
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°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	2035.7	1980.0	1874.8	1771.7	1685.1	1613.9	1550.0	1524.2	1503.5	1500.4	1484.0
5°	2126.4	2014.0	1813.0	1647.9	1537.6	1459.2	1392.2	1350.9	1319.0	1306.6	1295.2
7.5°	2263.6	2093.5	1804.7	1614.9	1482.9	1350.9	1227.2	1093.1	1009.6	977.7	959.0
10°	2430.7	2198.6	1835.6	1605.6	1374.7	1096.2	891.0	720.8	651.7	629.1	622.8
12.5°	2625.6	2329.6	1889.3	1547.9	1143.7	778.6	614.6	556.9	541.4	534.1	534.1
15°	2849.3	2473.0	1927.4	1380.8	845.7	588.8	532.1	505.3	488.8	479.6	480.6
17.5°	3078.3	2613.2	1908.8	1138.5	624.0	523.9	481.6	452.7	430.0	420.8	418.7
20°	3309.2	2743.1	1805.7	847.7	528.0	475.4	428.0	396.0	373.3	364.0	362.0
22.5°	3548.5	2853.4	1624.2	621.8	474.3	421.8	375.4	343.4	321.8	313.5	309.4
25°	3781.6	2943.2	1370.5	503.2	423.9	371.2	326.9	297.0	277.4	269.1	268.1
27.5°	3999.1	2999.9	1076.6	444.4	379.5	325.9	285.6	258.9	242.4	236.1	235.1
30°	4195.1	3005.1	796.1	401.1	340.3	286.7	249.6	225.8	211.4	205.2	203.2
32.5°	4393.1	2961.8	579.5	362.0	304.2	252.6	216.6	198.0	187.7	182.5	182.5
35°	4579.8	2861.7	451.7	327.9	269.1	219.7	190.8	177.4	171.2	166.0	166.0
37.5°	4762.3	2718.3	383.6	298.0	236.1	191.8	168.1	159.9	154.7	149.5	149.5
40°	4947.9	2537.9	348.6	270.1	209.3	170.2	149.5	142.3	137.1	133.0	132.0
42.5°	5175.9	2329.6	325.9	244.4	185.7	150.5	132.0	123.7	119.6	115.5	113.5
45°	5439.9	2150.2	307.3	218.6	166.0	134.0	114.5	106.2	100.0	94.8	93.8
47.5°	5820.4	2020.2	282.5	190.8	147.5	116.5	99.0	89.7	80.4	75.3	74.2
50°	6306.1	1912.9	250.6	166.0	128.9	99.0	82.5	71.2	62.9	57.8	57.8
52.5°	6547.4	1772.7	221.7	144.4	108.2	83.6	67.1	53.7	49.5	44.3	44.3
55°	6644.4	1665.4	192.8	122.7	89.7	69.1	52.6	41.3	38.2	35.0	34.0
57.5°	6916.6	1634.5	168.1	104.1	74.2	54.7	40.2	30.9	28.9	24.8	24.8
60°	7354.8	1650.0	145.4	88.7	59.8	42.3	29.9	23.8	21.6	17.5	17.5
62.5°	7828.2	1630.4	122.7	76.3	46.4	30.9	20.6	17.5	17.5	10.3	9.3
65°	7919.0	1452.0	105.2	62.9	36.1	22.7	13.4	11.4	15.5	2.0	0.0
67.5°	7349.7	1126.1	90.7	48.4	26.8	17.5	10.3	5.1	13.4	0.0	0.0
70°	5877.0	715.7	73.2	35.0	20.6	14.4	8.3	2.0	10.3	0.0	0.0
72.5°	4155.9	415.6	57.8	24.8	17.5	11.4	6.1	0.0	6.1	0.0	0.0
75°	2101.7	221.7	36.1	18.5	13.4	8.3	4.1	0.0	1.0	0.0	0.0
77.5°	454.8	103.1	22.7	13.4	9.3	5.1	2.0	0.0	0.0	0.0	0.0
80°	99.0	45.4	14.4	8.3	5.1	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	36.1	23.8	7.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.6	12.4	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	4.1	1.0	1.0	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)