

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: P383182

Luminaire Tested: **GLEON-SA5A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15407.8 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

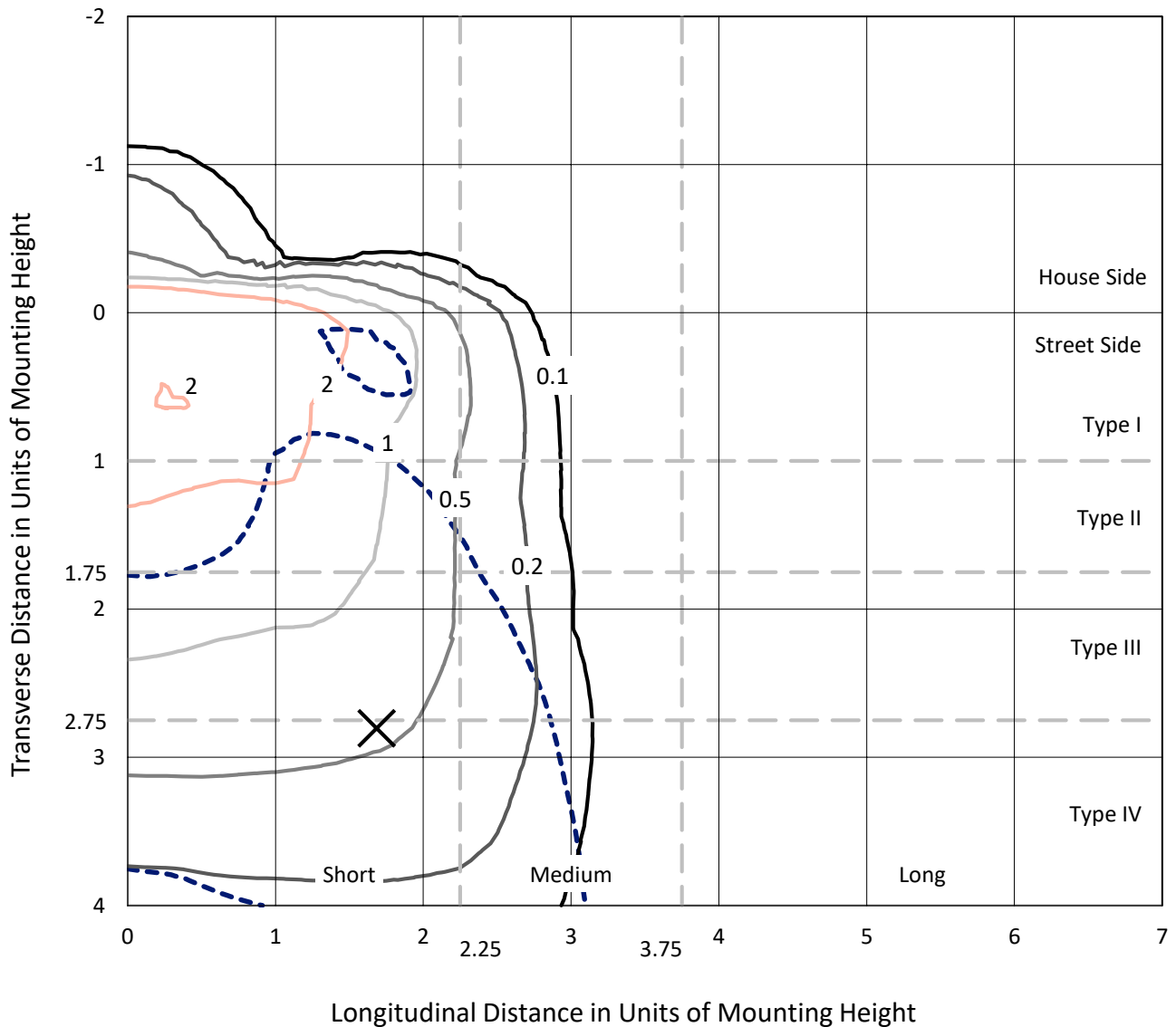
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

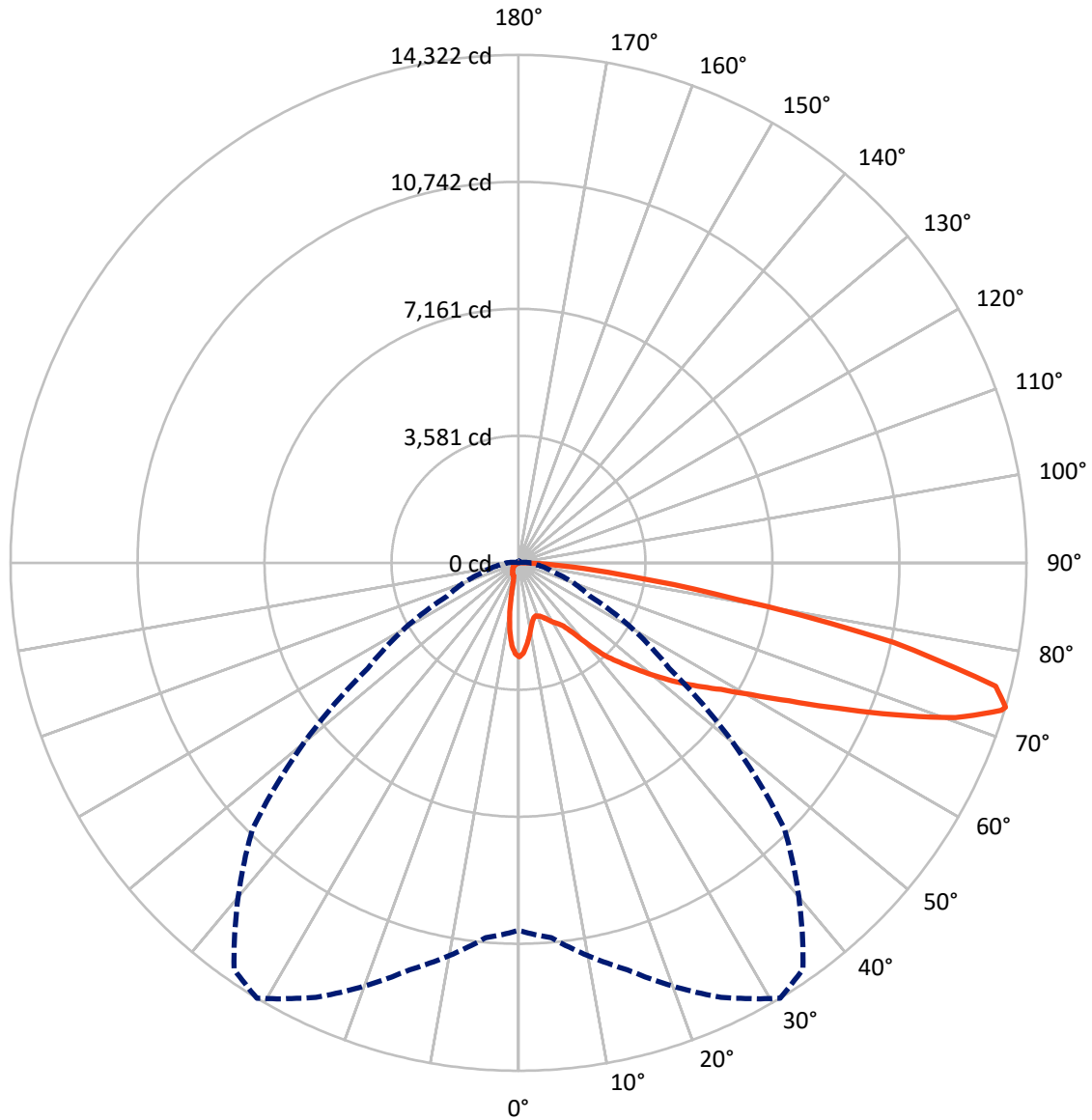
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.5	0.0	1404.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	14003.3	0.0	14003.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	15407.8	0.0	15407.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.4
10°-20°	477.2	3.1
20°-30°	715.1	4.6
30°-40°	1137.7	7.4
40°-50°	2031.5	13.2
50°-60°	3152.4	20.5
60°-70°	4190.7	27.2
70°-80°	3152.2	20.5
80°-90°	331.2	2.1
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°	15407.8	100.0
0°-180°	15407.8	100.0

Coefficient of Utilization

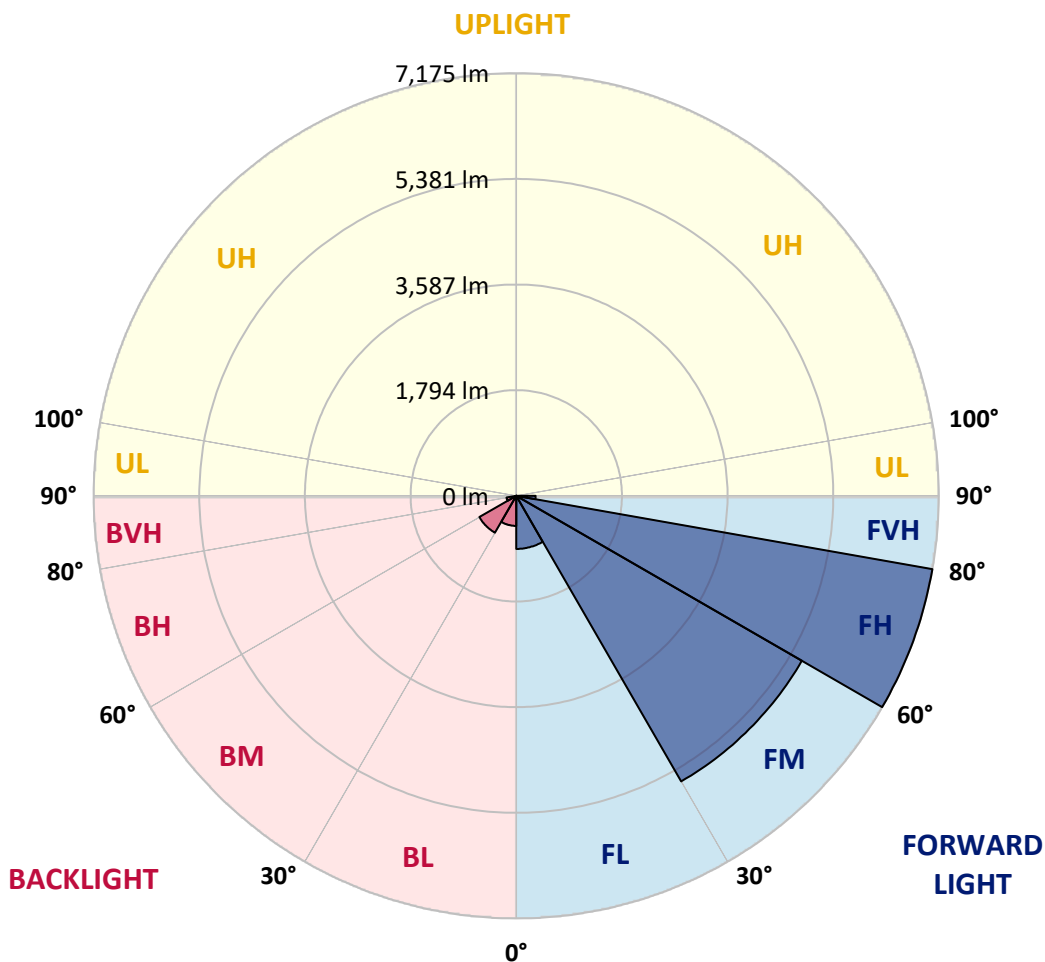


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.4	5.9			
FM (30°-60°)	5598.7	36.3			
FH (60°-80°)	7174.8	46.6			G3/7500
FVH (80°-90°)	328.4	2.1			G3/500
BL (0°-30°)	510.7	3.3	B2/1000		
BM (30°-60°)	722.9	4.7	B1/1000		
BH (60°-80°)	168.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9
2.5°	2512.2	2522.7	2534.1	2536.3	2555.2	2556.0	2583.1	2603.5	2623.8	2643.4	2650.2
5°	2254.3	2271.7	2292.1	2312.4	2352.3	2368.2	2434.6	2502.4	2567.3	2629.1	2659.2
7.5°	1979.2	1998.7	2027.4	2077.9	2122.4	2153.4	2258.2	2378.8	2499.4	2613.3	2678.9
10°	1728.1	1746.2	1776.4	1829.8	1898.5	1940.7	2081.7	2249.0	2426.2	2598.9	2708.3
12.5°	1568.3	1578.0	1594.6	1651.9	1713.8	1761.3	1927.1	2134.5	2365.9	2598.2	2755.7
15°	1538.8	1541.9	1528.3	1553.9	1602.2	1648.2	1816.3	2041.8	2319.9	2610.2	2817.6
17.5°	1585.6	1584.1	1538.8	1535.8	1574.3	1611.9	1762.0	1977.7	2287.5	2638.1	2897.5
20°	1656.5	1651.2	1572.7	1558.5	1599.2	1634.6	1758.2	1953.5	2275.5	2684.9	2994.7
22.5°	1750.8	1741.6	1618.8	1603.7	1647.4	1684.3	1805.0	1976.9	2286.0	2747.4	3107.8
25°	1867.6	1854.0	1697.9	1681.4	1725.8	1762.8	1888.7	2044.0	2317.7	2823.6	3251.1
27.5°	1999.5	1979.9	1824.6	1781.6	1832.2	1870.5	2000.3	2146.6	2367.4	2904.3	3426.8
30°	2123.9	2098.3	1958.0	1887.2	1949.0	1992.0	2120.9	2268.7	2447.4	3028.6	3667.3
32.5°	2249.0	2220.4	2077.2	1992.8	2048.6	2095.2	2245.3	2436.8	2597.4	3218.7	3986.9
35°	2537.1	2507.0	2331.3	2191.7	2191.0	2217.5	2419.5	2666.7	2795.7	3483.3	4368.5
37.5°	3021.9	3004.5	2837.2	2572.6	2501.7	2472.2	2657.0	2941.2	3080.7	3847.5	4799.0
40°	3552.6	3537.6	3349.8	3110.1	3002.3	2929.9	2997.8	3323.5	3483.3	4292.3	5238.6
42.5°	4152.1	4080.5	3745.7	3674.1	3577.6	3522.6	3461.4	3794.8	3977.9	4776.4	5674.3
45°	4696.5	4575.9	4141.6	4032.9	4011.1	4024.7	4058.6	4428.0	4534.3	5351.6	6108.6
47.5°	5020.7	4925.7	4592.4	4488.4	4482.3	4572.0	4828.4	5143.5	5088.5	5853.0	6490.9
50°	5329.0	5243.1	4966.4	4992.0	5019.9	5142.0	5702.3	5879.5	5594.4	6307.7	6841.5
52.5°	5578.6	5447.4	5302.6	5446.7	5583.9	5780.6	6604.0	6539.9	5953.3	6669.6	7141.5
55°	5722.6	5663.1	5733.1	5877.9	6135.7	6455.4	7455.2	7089.5	6215.7	6999.8	7341.3
57.5°	6250.4	6133.5	6272.9	6398.1	6734.4	7181.5	8184.3	7499.0	6404.9	7204.1	7387.4
60°	6889.0	6794.7	6877.0	7085.0	7538.9	8064.4	8865.9	7832.9	6503.7	7335.3	7268.2
62.5°	7905.3	7780.9	7729.6	7962.6	8564.3	9138.1	9383.1	8064.4	6481.8	7277.2	6859.5
65°	9267.0	9138.1	8908.9	9119.9	9885.2	10290.2	9961.4	8113.4	6331.1	6807.6	5826.6
67.5°	10661.8	10568.3	10372.3	10728.2	11418.8	11549.2	10572.9	7994.3	5845.5	5519.8	4116.7
70°	11583.1	11543.2	11670.6	12457.8	13073.8	13036.1	11133.8	7354.2	4556.2	3394.4	2036.5
72.5°	10918.9	11110.5	12051.4	13478.7	14231.1	13923.5	10845.8	5647.2	2604.2	1305.8	588.8
73°	10368.5	10613.6	11880.2	13517.1	14322.4	13985.3	10603.8	5183.5	2219.7	1030.7	446.3
75°	7213.2	7514.0	9835.5	12588.9	13895.6	13324.9	8838.7	3172.7	1028.4	456.9	180.2
77.5°	3502.2	3724.6	5415.7	9095.8	10806.6	10410.8	5502.5	1182.2	464.5	285.8	82.9
80°	1307.3	1453.7	2350.9	4629.3	6245.1	6408.7	2420.3	447.1	309.1	230.0	42.2
82.5°	342.3	381.5	867.1	2064.4	3200.6	3349.8	763.0	225.4	226.2	189.3	25.6
85°	109.4	125.2	270.7	926.6	1507.9	1324.0	199.1	109.4	164.3	141.0	14.3
87.5°	13.6	17.3	86.0	217.9	332.5	184.7	30.9	32.4	70.1	78.4	8.3
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°	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9
2.5°	2657.0	2653.2	2654.0	2634.3	2621.6	2595.9	2569.5	2557.5	2544.6	2539.4	2544.6
5°	2670.6	2663.8	2644.2	2583.8	2519.7	2436.8	2359.1	2300.4	2226.5	2206.1	2227.2
7.5°	2691.6	2678.1	2620.8	2497.9	2355.4	2197.1	2019.1	1889.5	1783.2	1714.5	1739.4
10°	2722.5	2696.9	2581.6	2372.7	2117.9	1837.4	1584.8	1388.0	1248.6	1191.3	1189.0
12.5°	2774.6	2726.4	2533.3	2209.9	1827.6	1453.7	1122.7	909.3	796.2	723.1	721.6
15°	2831.9	2761.0	2472.2	2014.6	1489.8	1041.2	723.1	561.0	487.9	464.5	461.4
17.5°	2902.1	2801.0	2393.1	1774.0	1136.2	689.9	472.0	425.3	422.2	419.9	419.9
20°	2990.3	2848.5	2291.3	1498.9	806.0	460.7	401.1	404.1	405.6	402.6	403.4
22.5°	3092.7	2896.7	2169.9	1203.4	545.1	385.3	383.8	387.5	389.0	387.5	388.3
25°	3211.9	2952.5	2022.1	893.4	393.6	365.6	369.5	374.8	378.5	378.5	378.5
27.5°	3359.6	3020.4	1844.2	623.5	340.0	345.3	355.9	365.6	370.9	372.4	372.4
30°	3551.9	3104.8	1630.9	427.5	309.1	318.2	337.8	356.6	366.5	368.0	368.7
32.5°	3794.8	3199.9	1383.5	315.9	282.7	289.5	310.7	342.3	361.2	364.1	364.1
35°	4072.9	3309.9	1117.4	275.2	263.9	266.1	282.7	319.0	352.1	360.4	361.2
37.5°	4377.5	3418.5	849.8	257.1	248.1	248.1	260.1	291.0	330.2	355.9	358.9
40°	4661.7	3484.1	595.6	242.8	233.7	233.7	244.3	266.9	303.9	342.3	350.6
42.5°	4924.2	3506.7	414.7	229.2	220.1	222.5	231.5	249.6	277.4	315.9	323.4
45°	5194.0	3502.9	302.4	213.4	206.6	213.4	220.1	233.7	254.1	275.9	277.4
47.5°	5397.7	3471.2	239.8	198.3	193.8	202.8	208.9	217.9	229.2	227.7	227.7
50°	5588.4	3394.4	193.0	177.9	180.9	191.5	194.5	197.6	198.3	184.0	182.5
52.5°	5733.1	3274.5	154.5	156.0	168.1	178.7	175.7	171.1	163.6	146.3	143.3
55°	5781.4	3043.7	121.4	128.9	149.3	162.8	151.6	141.8	127.4	113.1	110.1
57.5°	5694.0	2745.9	98.7	100.2	125.9	137.2	124.4	113.1	97.3	85.2	82.9
60°	5508.4	2414.9	81.4	75.4	97.3	107.0	98.7	87.5	73.1	64.1	63.3
62.5°	5140.6	2062.1	67.1	58.8	73.9	82.2	76.9	68.7	56.5	50.5	49.7
65°	4367.0	1649.7	54.3	47.5	57.3	64.1	59.5	53.6	44.5	40.0	39.2
67.5°	3048.3	1115.2	44.5	39.2	45.3	50.5	46.8	43.7	35.4	34.7	35.4
70°	1470.3	537.6	37.0	31.7	35.4	39.2	37.7	35.4	33.9	39.2	45.3
72.5°	421.4	180.2	29.4	26.4	28.7	30.9	32.4	31.7	37.0	47.5	55.1
73°	324.2	145.5	27.9	24.9	27.1	30.2	31.7	30.9	37.7	48.3	55.1
75°	138.7	70.1	21.1	20.4	22.6	26.4	27.9	27.9	37.7	49.0	52.8
77.5°	62.6	37.7	13.6	15.8	19.6	21.1	23.4	23.4	30.2	37.7	37.7
80°	35.4	20.4	10.5	12.0	14.3	14.3	14.3	12.9	13.6	15.1	16.6
82.5°	22.6	13.6	8.3	9.8	9.0	7.5	6.1	6.1	5.3	6.1	7.5
85°	12.9	7.5	7.5	6.1	3.7	3.0	3.7	3.0	0.7	0.0	0.7
87.5°	7.5	4.6	2.2	0.0	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)