

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: P383184

Luminaire Tested: **GLEON-SA5A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15726.4 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

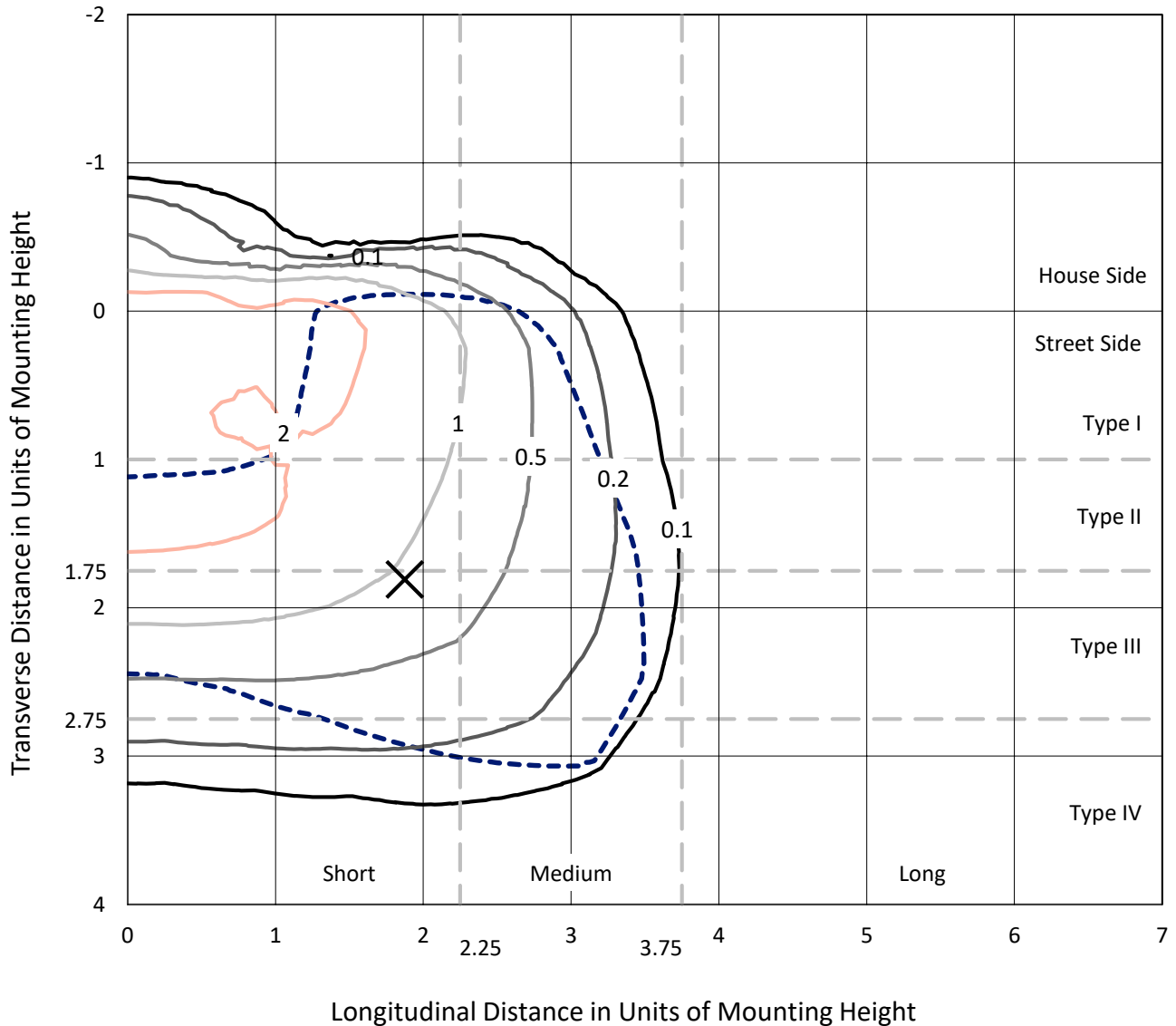
Input Watts (W): 162
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

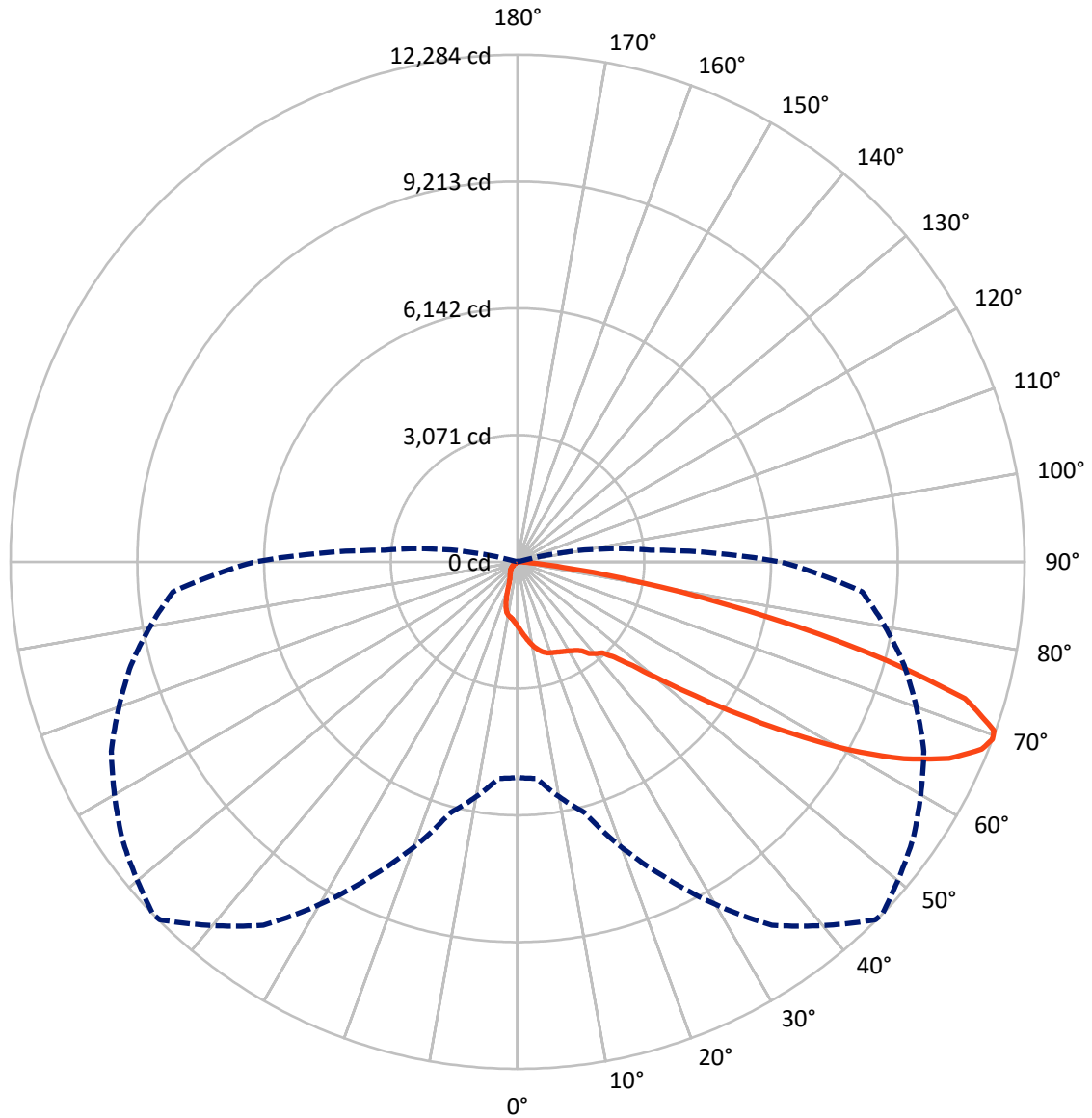
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.9	0.0	1613.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14112.4	0.0	14112.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	15726.4	0.0	15726.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	1.0
10°-20°	475.8	3.0
20°-30°	748.3	4.8
30°-40°	1073.1	6.8
40°-50°	1854.6	11.8
50°-60°	3664.0	23.3
60°-70°	5120.8	32.6
70°-80°	2473.9	15.7
80°-90°	159.0	1.0
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°	15726.4	100.0
0°-180°	15726.4	100.0

Coefficient of Utilization



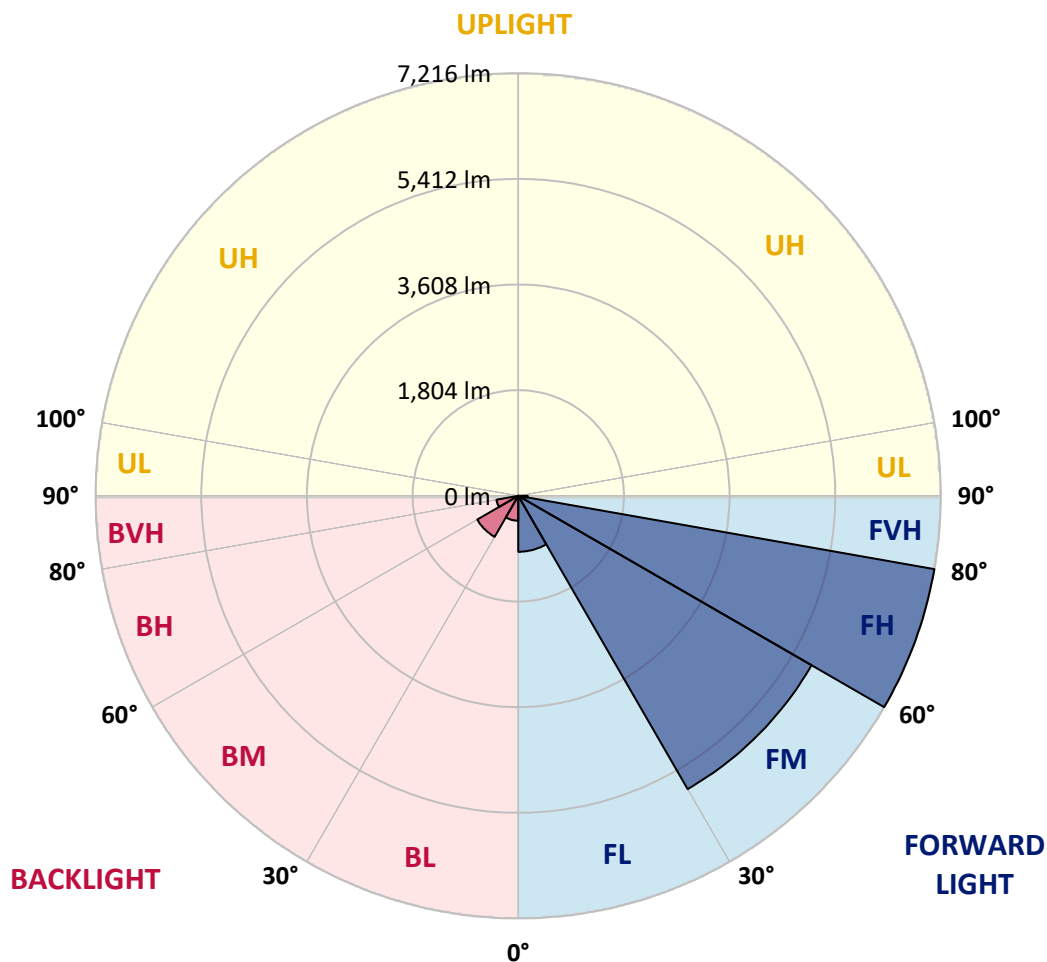
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.6	6.1			
FM (30°-60°)	5782.9	36.8			
FH (60°-80°)	7216.3	45.9			G3/7500
FVH (80°-90°)	157.7	1.0			G2/225
BL (0°-30°)	425.4	2.7	B1/500		
BM (30°-60°)	808.8	5.1	B1/1000		
BH (60°-80°)	378.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7
2.5°	1750.5	1748.2	1738.0	1733.5	1708.5	1693.7	1687.8	1669.3	1642.8	1616.2	1586.8
5°	1949.5	1948.8	1929.7	1911.3	1864.0	1819.8	1811.7	1768.9	1709.2	1653.1	1597.1
7.5°	2153.1	2143.5	2124.3	2088.9	2020.3	1949.5	1942.9	1882.5	1797.7	1716.6	1636.2
10°	2325.6	2319.7	2294.7	2240.8	2160.4	2080.1	2071.9	1997.5	1901.7	1802.1	1699.6
12.5°	2459.8	2455.4	2422.2	2355.1	2269.5	2186.2	2175.2	2108.8	2006.4	1895.0	1774.0
15°	2541.6	2539.5	2498.9	2427.3	2343.3	2271.0	2261.4	2203.2	2108.1	1991.6	1855.2
17.5°	2560.8	2561.6	2519.6	2447.3	2378.0	2326.4	2319.0	2274.7	2195.1	2079.3	1936.3
20°	2518.1	2526.9	2489.3	2426.6	2383.8	2356.6	2350.7	2324.1	2257.0	2147.9	2001.2
22.5°	2457.6	2462.0	2436.2	2394.2	2376.5	2381.7	2378.7	2364.0	2307.2	2206.9	2065.3
25°	2420.7	2420.7	2405.3	2369.9	2381.7	2413.4	2414.1	2411.1	2366.1	2279.1	2143.5
27.5°	2419.2	2414.9	2397.2	2370.6	2403.0	2451.7	2454.6	2474.6	2446.5	2366.9	2240.8
30°	2478.3	2473.1	2435.4	2400.8	2442.1	2494.5	2501.9	2545.4	2531.3	2462.0	2349.2
32.5°	2616.2	2597.7	2514.3	2457.6	2488.5	2551.2	2560.8	2630.1	2652.3	2579.3	2453.9
35°	2804.9	2746.7	2626.5	2565.3	2568.2	2633.9	2642.7	2744.4	2810.0	2687.0	2535.0
37.5°	3065.2	3036.4	2841.0	2677.4	2690.6	2790.2	2816.0	2926.5	2908.1	2745.9	2627.2
40°	3635.9	3590.9	3383.0	2991.5	2807.9	2917.0	2925.1	2984.0	2985.5	2879.3	2818.9
42.5°	4413.0	4394.7	4175.7	3561.4	3038.6	3001.7	3016.5	3116.0	3227.4	3161.0	3158.1
45°	5273.6	5264.0	5031.7	4317.9	3505.4	3279.8	3298.1	3431.6	3644.8	3659.5	3753.1
47.5°	5965.9	5961.5	5828.0	5162.2	4219.9	3750.9	3756.8	3898.4	4273.0	4458.0	4607.7
50°	6597.1	6618.5	6513.0	6075.8	5193.2	4489.0	4475.0	4569.4	5171.0	5474.1	5659.9
52.5°	7474.6	7504.8	7209.2	6928.2	6214.4	5404.8	5393.8	5492.6	6250.6	6477.6	6510.9
55°	8249.5	8197.9	7964.2	7883.0	7459.8	6535.9	6532.9	6619.9	7294.7	7391.3	7452.5
57.5°	8591.7	8571.7	8684.5	8870.4	8764.2	7872.7	7866.1	7799.8	8228.8	8239.2	8427.2
60°	8807.7	8832.0	9177.9	9750.8	10015.4	9311.3	9268.5	8863.8	9121.1	9098.2	9299.5
62.5°	8645.5	8693.4	9315.8	10270.6	10951.9	10567.0	10506.6	9838.5	9883.5	9804.6	9991.9
65°	7784.2	7858.7	8878.5	10172.5	11416.5	11548.4	11487.2	10699.0	10488.9	10359.1	10255.1
67.5°	6320.6	6364.8	7429.6	9319.4	11207.1	12133.9	12121.4	11453.3	10946.1	10265.5	9458.7
69°	5223.4	5266.9	6291.9	8421.3	10746.2	12259.3	12283.6	11695.2	10859.1	9696.2	8380.8
70°	4424.1	4470.6	5425.4	7651.5	10211.6	12201.0	12244.5	11672.3	10609.8	9037.0	7434.8
72.5°	2320.5	2360.3	3340.3	5271.3	8324.7	11203.4	11335.4	10685.7	8993.5	6563.2	4396.1
75°	729.2	752.1	1304.4	2755.5	5699.8	8711.1	8741.4	8382.3	6386.2	3610.1	1830.9
77.5°	278.0	271.4	434.3	1015.3	2881.6	5485.1	5670.2	5238.2	3351.2	1276.3	422.5
80°	149.7	150.4	225.6	420.3	1232.8	2818.9	2975.2	2538.7	1190.8	398.1	97.3
82.5°	64.9	67.8	126.8	222.6	566.3	1039.7	1117.9	930.5	455.0	267.6	36.1
85°	14.0	15.5	61.2	120.9	230.8	291.9	306.0	301.5	289.8	207.9	14.0
87.5°	0.0	0.0	27.3	43.5	58.2	66.3	58.2	75.9	160.0	140.1	7.4
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°	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7	1575.7
2.5°	1577.2	1563.9	1541.1	1516.0	1498.3	1479.9	1465.1	1458.5	1451.1	1445.9	1452.6
5°	1574.2	1548.4	1504.2	1461.4	1430.5	1405.4	1384.7	1376.6	1368.5	1362.7	1361.9
7.5°	1600.0	1563.9	1496.1	1433.4	1385.5	1351.6	1323.5	1311.7	1302.2	1297.7	1294.0
10°	1649.5	1603.0	1512.3	1430.5	1368.5	1311.1	1250.5	1204.1	1173.8	1159.9	1154.7
12.5°	1713.6	1655.4	1543.3	1445.9	1356.0	1245.4	1117.1	1006.4	935.0	911.3	897.4
15°	1788.9	1716.6	1583.8	1465.9	1310.3	1108.3	890.7	746.2	679.8	666.5	651.8
17.5°	1861.0	1781.5	1632.5	1469.5	1210.0	885.5	652.5	554.5	528.7	537.5	539.7
20°	1924.5	1845.6	1680.4	1437.1	1027.9	664.4	505.1	480.8	490.4	507.3	510.2
22.5°	1988.7	1907.5	1724.7	1351.6	794.9	504.3	455.0	460.8	470.4	487.4	490.4
25°	2066.8	1982.7	1765.9	1194.5	596.6	429.2	432.1	440.9	450.5	466.1	467.5
27.5°	2156.7	2077.8	1793.2	990.2	442.4	394.5	404.1	417.3	426.9	441.6	444.6
30°	2276.2	2203.2	1802.1	778.7	370.8	363.5	368.0	384.2	398.1	411.5	413.7
32.5°	2388.3	2327.1	1772.6	587.7	343.6	334.8	334.8	344.3	360.6	373.1	376.1
35°	2491.5	2451.7	1678.2	429.9	323.0	308.2	300.8	300.8	311.1	321.5	324.5
37.5°	2627.9	2626.5	1525.6	342.9	303.0	286.1	270.6	258.8	255.2	257.3	258.8
40°	2861.7	2863.9	1326.5	307.5	286.1	263.3	239.6	218.3	198.3	191.7	191.0
42.5°	3226.7	3193.4	1117.9	290.5	271.4	239.6	204.3	175.5	144.5	135.0	134.2
45°	3806.2	3609.4	896.6	275.0	255.9	213.1	168.9	129.8	104.7	97.3	97.3
47.5°	4650.5	4155.7	694.6	258.0	235.2	182.9	127.5	93.6	76.7	73.0	73.8
50°	5523.5	4691.1	532.4	236.7	210.2	151.2	94.4	67.8	58.2	58.2	59.0
52.5°	6297.7	5083.4	415.1	213.8	179.1	118.7	71.5	53.1	48.6	47.9	48.6
55°	7022.6	5336.2	317.8	187.3	142.3	88.5	54.6	43.5	40.5	39.1	38.4
57.5°	7721.6	5461.6	238.2	151.2	103.2	64.2	43.5	36.9	33.9	31.7	30.9
60°	8186.8	5359.8	163.7	111.3	71.5	46.5	36.1	31.7	28.0	25.8	25.1
62.5°	8449.3	5081.9	105.5	80.4	50.9	34.7	28.8	26.5	21.4	19.2	19.2
65°	8343.1	4623.2	73.8	57.5	36.9	25.8	21.4	21.4	15.5	12.6	11.8
67.5°	7393.4	3905.8	56.1	42.8	26.5	19.2	16.2	18.4	9.6	5.9	5.9
69°	6361.2	3236.9	47.9	35.4	22.1	15.5	14.0	17.0	6.6	4.4	3.7
70°	5528.6	2792.3	43.5	30.9	18.4	13.2	12.6	16.2	6.6	3.7	3.0
72.5°	3307.7	1557.3	33.2	22.1	11.8	10.3	10.3	18.4	6.6	3.7	3.0
75°	1336.9	548.6	24.3	15.5	8.8	8.8	12.6	23.6	5.9	3.0	2.2
77.5°	303.0	120.2	14.0	9.6	5.9	8.8	14.7	18.4	3.7	1.5	0.0
80°	73.8	29.5	8.8	5.9	3.7	6.6	11.1	10.3	0.7	0.0	0.0
82.5°	24.3	10.3	3.7	3.0	0.7	2.2	5.1	3.0	0.0	0.0	0.0
85°	10.3	5.9	1.5	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	0.0	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)