

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: P383210

Luminaire Tested: **GLEON-SA5B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383210
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-SA5B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 18895.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

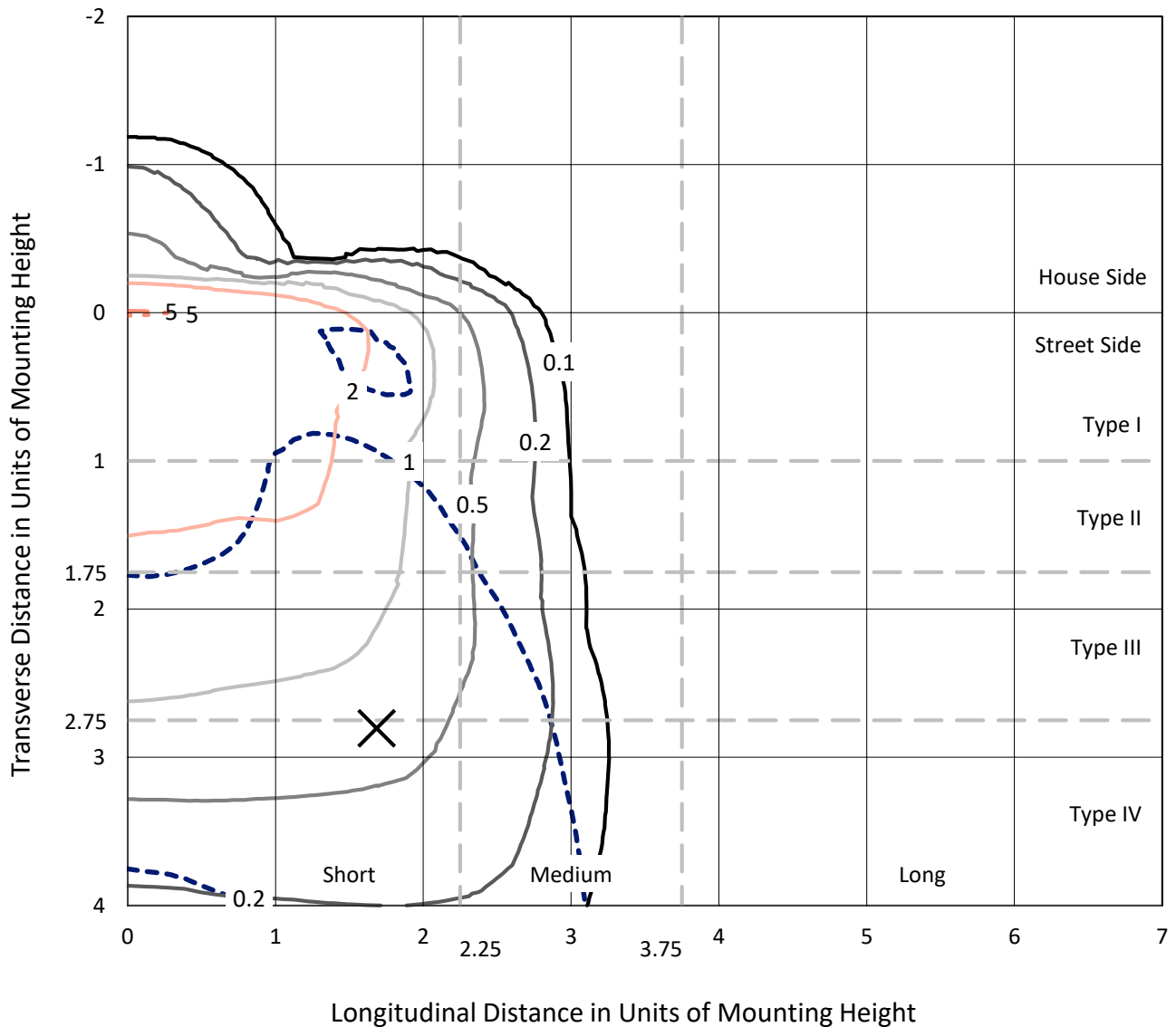
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

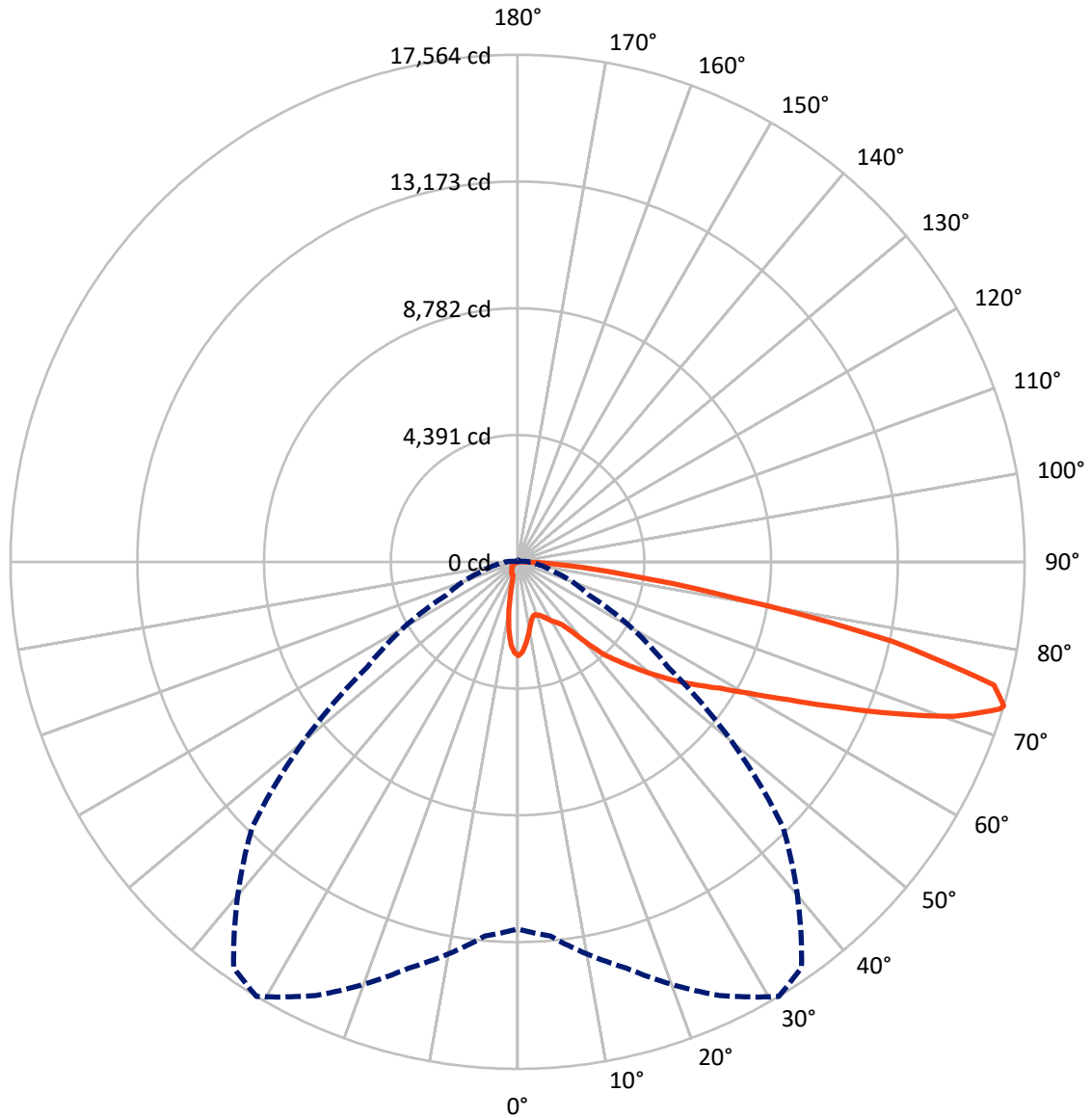
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1722.4	0.0	1722.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	17173.1	0.0	17173.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	18895.5	0.0	18895.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	1.4
10°-20°	585.3	3.1
20°-30°	876.9	4.6
30°-40°	1395.2	7.4
40°-50°	2491.4	13.2
50°-60°	3866.0	20.5
60°-70°	5139.3	27.2
70°-80°	3865.8	20.5
80°-90°	406.2	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°	18895.5	100.0
0°-180°	18895.5	100.0



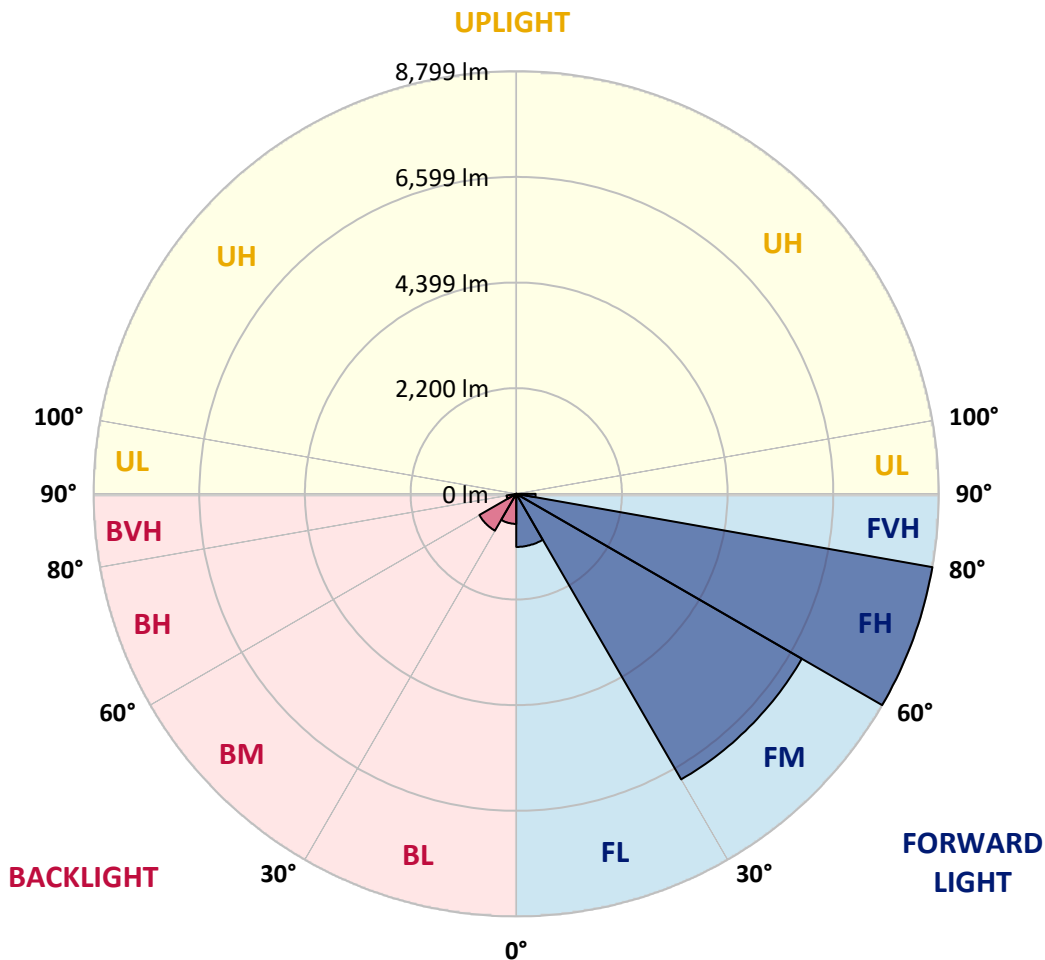
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.4	5.9			
FM (30°-60°)	6866.0	36.3			
FH (60°-80°)	8798.9	46.6			G4/12000
FVH (80°-90°)	402.8	2.1			G3/500
BL (0°-30°)	626.3	3.3	B2/1000		
BM (30°-60°)	886.6	4.7	B1/1000		
BH (60°-80°)	206.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0
2.5°	3080.9	3093.9	3107.7	3110.4	3133.5	3134.5	3167.8	3192.8	3217.8	3241.8	3250.1
5°	2764.6	2785.9	2810.9	2835.8	2884.8	2904.3	2985.6	3068.9	3148.4	3224.2	3261.2
7.5°	2427.1	2451.2	2486.3	2548.2	2602.8	2640.8	2769.3	2917.2	3065.2	3204.8	3285.2
10°	2119.3	2141.4	2178.4	2244.1	2328.2	2380.0	2552.9	2758.2	2975.5	3187.2	3321.2
12.5°	1923.3	1935.3	1955.6	2025.8	2101.7	2160.0	2363.3	2617.6	2901.5	3186.3	3379.6
15°	1887.2	1890.9	1874.3	1905.7	1964.8	2021.3	2227.4	2503.9	2845.1	3201.1	3455.4
17.5°	1944.5	1942.6	1887.2	1883.5	1930.6	1976.8	2160.9	2425.3	2805.4	3235.3	3553.4
20°	2031.4	2024.9	1928.8	1911.3	1961.2	2004.6	2156.3	2395.8	2790.5	3292.6	3672.6
22.5°	2147.0	2135.9	1985.2	1966.7	2020.3	2065.6	2213.5	2424.4	2803.5	3369.4	3811.3
25°	2290.3	2273.6	2082.3	2061.9	2116.5	2161.7	2316.2	2506.7	2842.3	3462.7	3987.0
27.5°	2452.1	2428.1	2237.6	2184.9	2246.9	2294.0	2453.0	2632.5	2903.4	3561.7	4202.5
30°	2604.7	2573.2	2401.3	2314.3	2390.2	2442.9	2601.0	2782.3	3001.4	3714.3	4497.4
32.5°	2758.2	2723.0	2547.4	2443.8	2512.2	2569.6	2753.6	2988.4	3185.3	3947.2	4889.5
35°	3111.4	3074.4	2859.0	2687.9	2687.0	2719.4	2967.2	3270.4	3428.6	4271.8	5357.3
37.5°	3706.0	3684.6	3479.4	3154.9	3068.0	3031.9	3258.4	3607.0	3778.1	4718.4	5885.3
40°	4356.8	4338.4	4108.1	3814.1	3681.8	3593.2	3676.4	4075.8	4271.8	5263.9	6424.3
42.5°	5091.9	5004.1	4593.6	4505.7	4387.4	4319.9	4245.0	4653.6	4878.3	5857.6	6958.8
45°	5759.6	5611.6	5079.0	4945.9	4919.0	4935.7	4977.3	5430.4	5560.8	6563.0	7491.4
47.5°	6157.2	6040.6	5632.0	5504.3	5497.0	5607.0	5921.4	6307.9	6240.3	7177.9	7960.2
50°	6535.3	6429.9	6090.6	6122.0	6156.2	6306.0	6993.0	7210.3	6860.8	7735.5	8390.2
52.5°	6841.4	6680.5	6502.9	6679.6	6847.8	7089.2	8098.9	8020.3	7300.9	8179.3	8758.1
55°	7018.0	6945.0	7030.9	7208.4	7524.7	7916.8	9142.8	8694.3	7622.7	8584.3	9003.1
57.5°	7665.2	7521.9	7692.9	7846.4	8258.8	8807.1	10036.9	9196.4	7854.7	8834.9	9059.6
60°	8448.4	8332.8	8433.6	8688.8	9245.4	9889.9	10872.7	9606.0	7975.9	8995.8	8913.5
62.5°	9694.8	9542.2	9479.3	9765.0	10502.9	11206.5	11507.0	9889.9	7949.1	8924.6	8412.3
65°	11364.7	11206.5	10925.5	11184.3	12122.9	12619.4	12216.2	9950.0	7764.2	8348.5	7145.5
67.5°	13075.2	12960.6	12720.2	13156.6	14003.6	14163.5	12966.1	9803.9	7168.7	6769.3	5048.5
70°	14205.2	14156.2	14312.4	15277.8	16033.1	15986.9	13654.1	9018.9	5587.5	4162.7	2497.5
72.5°	13390.5	13625.4	14779.4	16529.7	17452.5	17075.2	13300.8	6925.5	3193.7	1601.4	722.1
73°	12715.5	13016.0	14569.4	16576.8	17564.3	17151.0	13004.0	6356.9	2722.1	1264.0	547.4
75°	8846.0	9214.9	12061.9	15438.6	17041.0	16341.0	10839.5	3890.9	1261.2	560.3	221.0
77.5°	4294.9	4567.7	6641.7	11154.8	13252.8	12767.3	6747.9	1449.9	569.5	350.4	101.7
80°	1603.3	1782.7	2883.0	5677.2	7658.7	7859.4	2968.1	548.3	379.1	282.0	51.8
82.5°	419.8	467.8	1063.4	2531.7	3925.1	4108.1	935.7	276.5	277.4	232.0	31.4
85°	134.0	153.5	331.9	1136.4	1849.3	1623.7	244.1	134.0	201.6	172.9	17.6
87.5°	16.7	21.2	105.5	267.3	407.7	226.6	37.9	39.8	86.0	96.1	10.2
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°	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0
2.5°	3258.4	3253.8	3254.7	3230.7	3215.0	3183.5	3151.1	3136.3	3120.7	3114.2	3120.7
5°	3275.0	3266.8	3242.7	3168.8	3090.1	2988.4	2893.2	2821.1	2730.5	2705.5	2731.4
7.5°	3300.9	3284.3	3214.0	3063.3	2888.5	2694.4	2476.1	2317.1	2186.7	2102.6	2133.2
10°	3338.9	3307.5	3166.0	2909.8	2597.3	2253.3	1943.6	1702.2	1531.2	1460.9	1458.2
12.5°	3402.7	3343.5	3106.8	2710.1	2241.3	1782.7	1376.7	1115.1	976.4	886.7	884.9
15°	3472.9	3386.0	3031.9	2470.7	1827.0	1277.0	886.7	687.9	598.2	569.5	565.9
17.5°	3558.9	3435.0	2934.7	2175.6	1393.4	846.0	578.9	521.5	517.8	515.1	515.1
20°	3667.1	3493.3	2809.9	1838.1	988.5	565.0	492.0	495.6	497.4	493.7	494.7
22.5°	3792.9	3552.5	2661.1	1475.8	668.5	472.5	470.6	475.3	477.1	475.3	476.2
25°	3939.0	3620.8	2479.9	1095.7	482.6	448.4	453.1	459.5	464.2	464.2	464.2
27.5°	4120.1	3704.1	2261.6	764.7	417.1	423.5	436.4	448.4	454.9	456.7	456.7
30°	4355.9	3807.6	1999.9	524.3	379.1	390.2	414.3	437.4	449.4	451.2	452.2
32.5°	4653.6	3924.1	1696.7	387.4	346.7	355.0	380.9	419.8	442.9	446.6	446.6
35°	4994.9	4059.1	1370.3	337.5	323.6	326.4	346.7	391.2	431.8	442.0	442.9
37.5°	5368.4	4192.2	1042.0	315.3	304.2	304.2	319.0	356.9	404.9	436.4	440.2
40°	5717.0	4272.7	730.4	297.7	286.6	286.6	299.6	327.3	372.6	419.8	429.9
42.5°	6038.8	4300.5	508.5	281.0	270.0	272.8	283.8	306.0	340.3	387.4	396.7
45°	6369.8	4295.8	370.8	261.7	253.4	261.7	270.0	286.6	311.6	338.4	340.3
47.5°	6619.5	4257.0	294.0	243.1	237.6	248.7	256.1	267.3	281.0	279.3	279.3
50°	6853.4	4162.7	236.7	218.2	221.9	234.8	238.6	242.3	243.1	225.6	223.8
52.5°	7030.9	4015.7	189.6	191.4	206.2	219.1	215.5	209.9	200.7	179.4	175.7
55°	7090.1	3732.7	148.9	158.1	183.0	199.7	185.8	173.8	156.2	138.7	135.0
57.5°	6982.8	3367.5	121.1	123.0	154.5	168.2	152.6	138.7	119.2	104.5	101.7
60°	6755.4	2961.6	99.9	92.5	119.2	131.3	121.1	107.2	89.7	78.6	77.7
62.5°	6304.2	2528.9	82.3	72.1	90.6	100.8	94.3	84.1	69.3	61.9	61.0
65°	5355.5	2023.1	66.6	58.2	70.2	78.6	73.0	65.7	54.6	49.0	48.1
67.5°	3738.3	1367.5	54.6	48.1	55.5	61.9	57.3	53.7	43.5	42.6	43.5
70°	1803.0	659.3	45.3	38.8	43.5	48.1	46.2	43.5	41.6	48.1	55.5
72.5°	516.9	221.0	36.1	32.3	35.1	37.9	39.8	38.8	45.3	58.2	67.5
73°	397.6	178.5	34.2	30.6	33.3	37.0	38.8	37.9	46.2	59.2	67.5
75°	170.1	86.0	25.9	25.0	27.8	32.3	34.2	34.2	46.2	60.1	64.7
77.5°	76.8	46.2	16.7	19.4	24.0	25.9	28.7	28.7	37.0	46.2	46.2
80°	43.5	25.0	12.9	14.8	17.6	17.6	17.6	15.7	16.7	18.5	20.3
82.5°	27.8	16.7	10.2	12.0	11.1	9.2	7.4	7.4	6.4	7.4	9.2
85°	15.7	9.2	9.2	7.4	4.7	3.7	4.7	3.7	0.9	0.0	0.9
87.5°	9.2	5.6	2.8	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)