

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: P383126

Luminaire Tested: **GLEON-SA4C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383126  
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-SA4C-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA 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: 18875 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

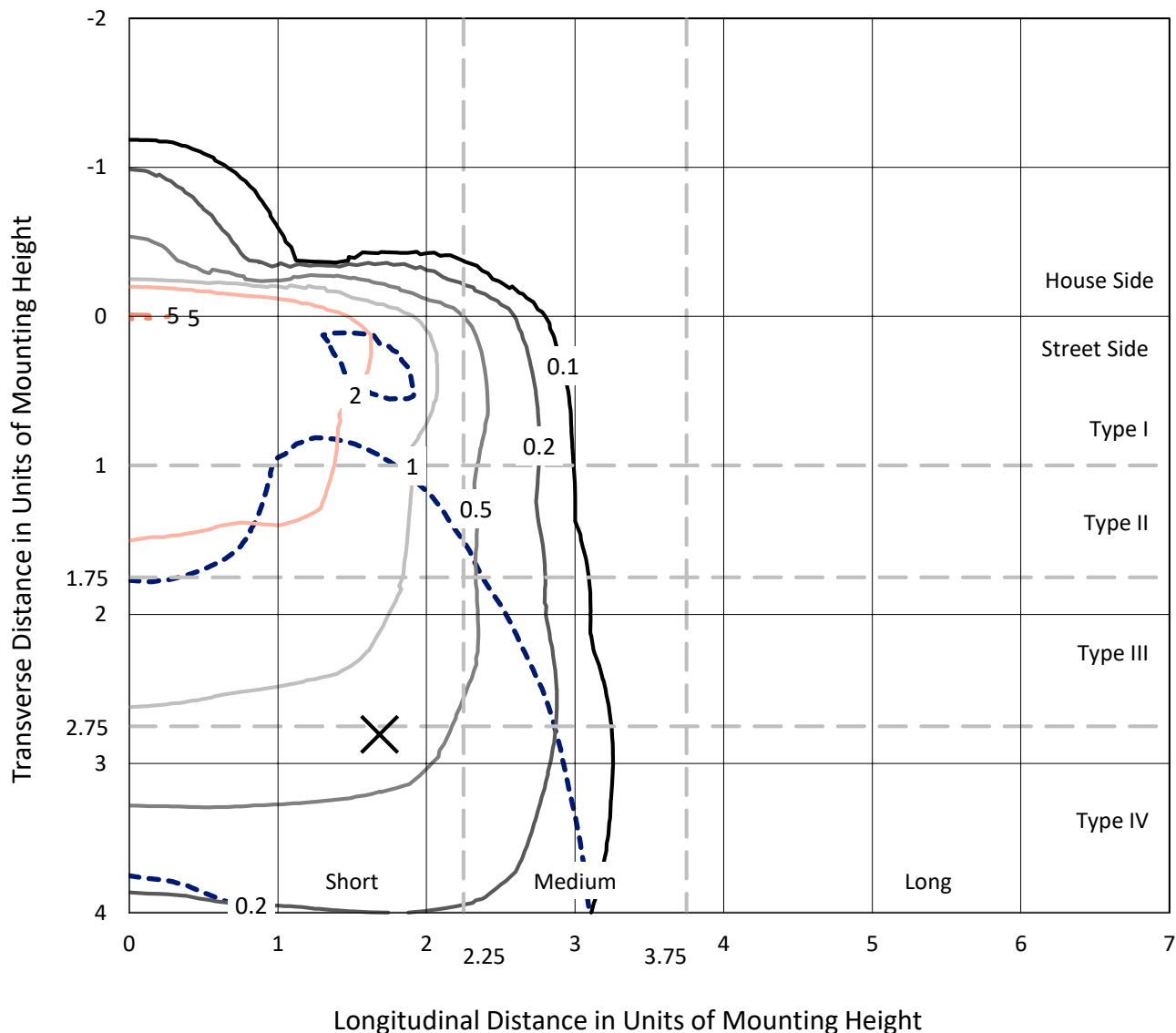
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

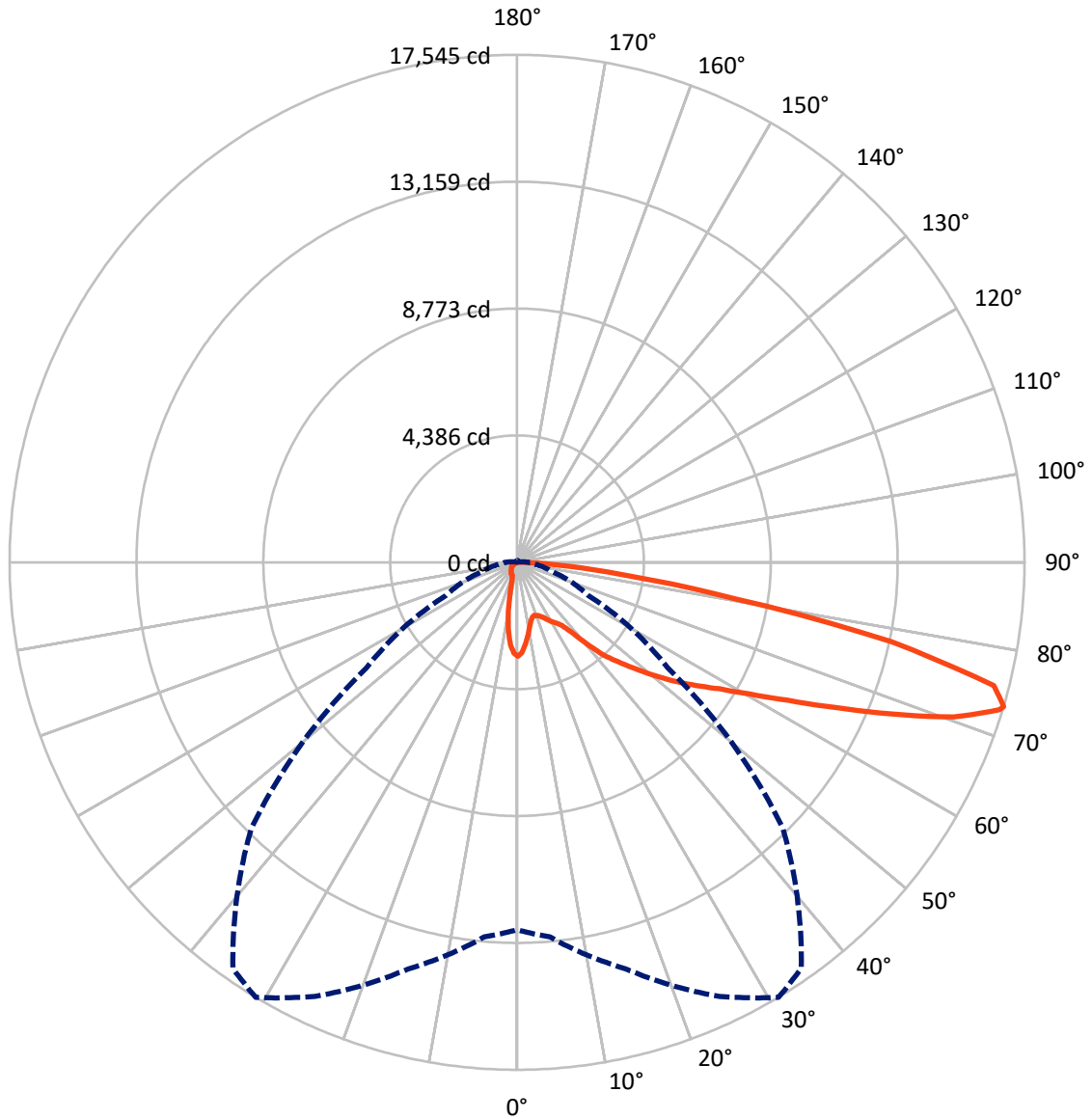
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1720.5	0.0	1720.5
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	17154.5	0.0	17154.5
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	18875.0	0.0	18875.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	1.4
10°-20°	584.6	3.1
20°-30°	876.0	4.6
30°-40°	1393.7	7.4
40°-50°	2488.7	13.2
50°-60°	3861.8	20.5
60°-70°	5133.7	27.2
70°-80°	3861.6	20.5
80°-90°	405.8	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°	18875.0	100.0
0°-180°	18875.0	100.0

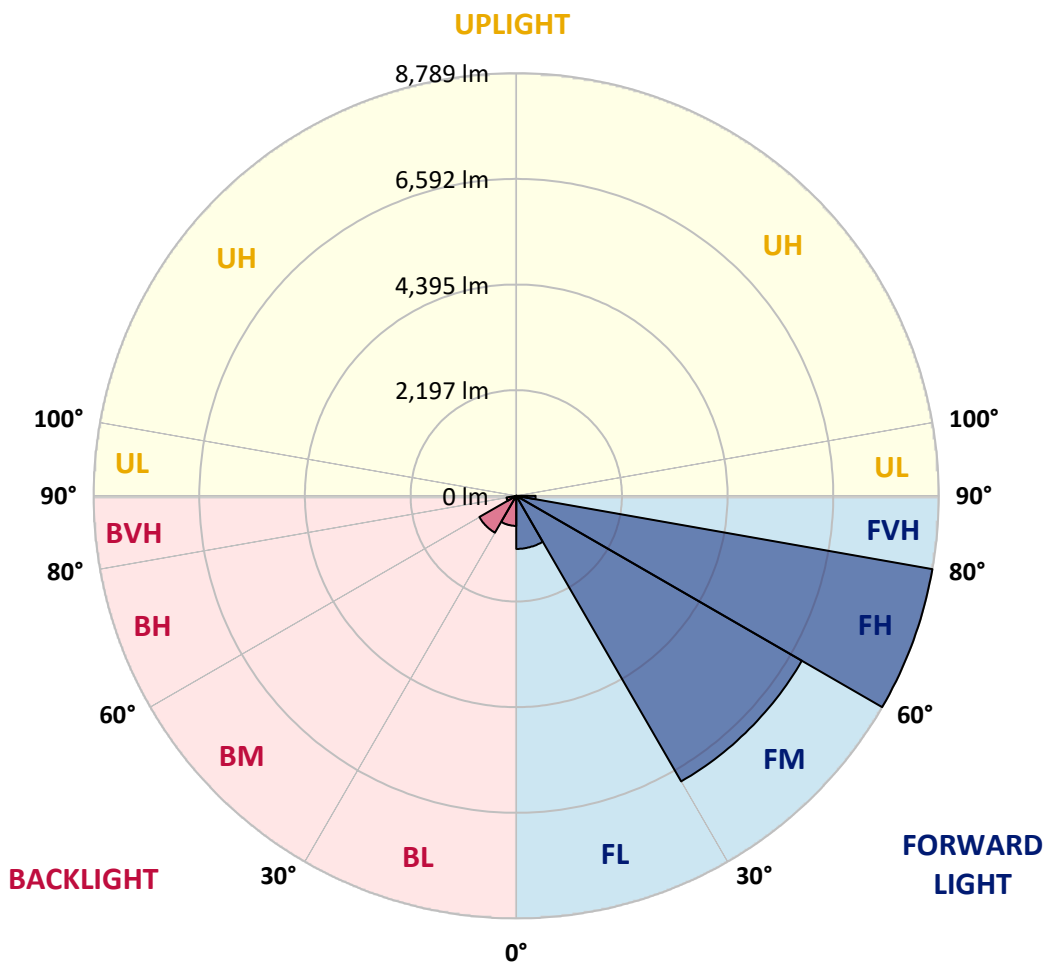


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.2	5.9			
FM (30°-60°)	6858.5	36.3			
FH (60°-80°)	8789.4	46.6			G4/12000
FVH (80°-90°)	402.4	2.1			G3/500
BL (0°-30°)	625.7	3.3	B2/1000		
BM (30°-60°)	885.6	4.7	B1/1000		
BH (60°-80°)	205.9	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°	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5
2.5°	3077.6	3090.5	3104.3	3107.1	3130.2	3131.1	3164.4	3189.3	3214.2	3238.2	3246.5
5°	2761.7	2782.9	2807.9	2832.7	2881.7	2901.1	2982.4	3065.5	3145.0	3220.7	3257.6
7.5°	2424.5	2448.6	2483.6	2545.5	2600.0	2637.9	2766.2	2914.1	3061.8	3201.3	3281.7
10°	2116.9	2139.1	2176.1	2241.7	2325.7	2377.4	2550.1	2755.1	2972.3	3183.8	3317.7
12.5°	1921.1	1933.1	1953.5	2023.7	2099.4	2157.6	2360.8	2614.8	2898.3	3182.8	3375.8
15°	1885.2	1888.8	1872.2	1903.6	1962.7	2019.0	2225.0	2501.2	2842.0	3197.6	3451.6
17.5°	1942.4	1940.5	1885.2	1881.4	1928.6	1974.7	2158.5	2422.7	2802.3	3231.8	3549.5
20°	2029.2	2022.8	1926.7	1909.1	1959.0	2002.5	2153.9	2393.1	2787.6	3289.0	3668.6
22.5°	2144.7	2133.6	1983.1	1964.5	2018.1	2063.4	2211.2	2421.7	2800.4	3365.7	3807.2
25°	2287.8	2271.2	2080.1	2059.7	2114.1	2159.4	2313.7	2504.0	2839.3	3459.0	3982.7
27.5°	2449.5	2425.5	2235.2	2182.5	2244.4	2291.5	2450.4	2629.6	2900.2	3557.9	4197.9
30°	2601.9	2570.4	2398.6	2311.8	2387.6	2440.2	2598.2	2779.2	2998.1	3710.3	4492.6
32.5°	2755.1	2720.1	2544.6	2441.1	2509.5	2566.8	2750.6	2985.1	3181.9	3943.0	4884.2
35°	3108.0	3071.0	2855.8	2685.0	2684.1	2716.4	2963.9	3266.8	3424.8	4267.1	5351.6
37.5°	3701.9	3680.6	3475.6	3151.4	3064.6	3028.6	3254.9	3603.0	3774.0	4713.3	5878.9
40°	4352.2	4333.7	4103.7	3809.9	3677.9	3589.3	3672.3	4071.3	4267.1	5258.2	6417.4
42.5°	5086.4	4998.7	4588.6	4500.9	4382.7	4315.2	4240.4	4648.6	4873.1	5851.2	6951.2
45°	5753.3	5605.5	5073.5	4940.5	4913.7	4930.3	4971.9	5424.5	5554.7	6556.0	7483.2
47.5°	6150.4	6034.1	5625.8	5498.4	5491.0	5600.9	5915.0	6301.0	6233.5	7170.1	7951.5
50°	6528.2	6422.9	6083.9	6115.3	6149.5	6299.1	6985.4	7202.4	6853.3	7727.1	8381.0
52.5°	6833.9	6673.2	6495.9	6672.3	6840.4	7081.4	8090.1	8011.6	7293.0	8170.4	8748.6
55°	7010.4	6937.4	7023.3	7200.6	7516.5	7908.1	9132.9	8684.9	7614.4	8575.0	8993.3
57.5°	7656.9	7513.8	7684.6	7837.9	8249.9	8797.6	10026.0	9186.5	7846.2	8825.3	9049.7
60°	8439.2	8323.8	8424.5	8679.3	9235.4	9879.2	10861.0	9595.6	7967.2	8986.0	8903.8
62.5°	9684.3	9531.9	9469.1	9754.4	10491.6	11194.4	11494.6	9879.2	7940.4	8914.9	8403.2
65°	11352.3	11194.4	10913.6	11172.2	12109.7	12605.7	12203.0	9939.1	7755.7	8339.5	7137.8
67.5°	13061.0	12946.6	12706.4	13142.4	13988.4	14148.2	12952.1	9793.3	7160.9	6761.9	5043.0
70°	14189.7	14140.8	14296.8	15261.2	16015.7	15969.6	13639.3	9009.1	5581.5	4158.1	2494.7
72.5°	13376.0	13610.7	14763.4	16511.8	17433.5	17056.7	13286.4	6918.0	3190.2	1599.7	721.4
73°	12701.7	13002.0	14553.7	16558.8	17545.3	17132.5	12990.0	6350.0	2719.2	1262.6	546.8
75°	8836.4	9204.9	12048.7	15421.9	17022.5	16323.3	10827.8	3886.6	1259.8	559.7	220.8
77.5°	4290.2	4562.7	6634.5	11142.7	13238.4	12753.5	6740.7	1448.3	569.0	350.1	101.6
80°	1601.6	1780.7	2879.9	5671.1	7650.4	7850.9	2964.8	547.7	378.7	281.7	51.7
82.5°	419.3	467.4	1062.2	2528.9	3920.8	4103.7	934.7	276.2	277.1	231.9	31.4
85°	134.0	153.3	331.5	1135.2	1847.3	1621.9	243.9	134.0	201.3	172.7	17.5
87.5°	16.6	21.2	105.3	266.9	407.4	226.3	37.9	39.7	85.9	96.0	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°	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5	3247.5
2.5°	3254.9	3250.3	3251.2	3227.2	3211.5	3180.0	3147.7	3133.0	3117.2	3110.8	3117.2
5°	3271.5	3263.2	3239.2	3165.3	3086.8	2985.1	2890.0	2818.0	2727.5	2702.5	2728.4
7.5°	3297.4	3280.7	3210.6	3059.9	2885.5	2691.4	2473.4	2314.6	2184.4	2100.4	2130.8
10°	3335.2	3303.8	3162.5	2906.7	2594.5	2250.9	1941.4	1700.4	1529.5	1459.4	1456.6
12.5°	3398.9	3339.9	3103.4	2707.2	2238.9	1780.7	1375.2	1113.9	975.3	885.7	883.9
15°	3469.2	3382.4	3028.6	2467.9	1825.1	1275.6	885.7	687.2	597.6	569.0	565.3
17.5°	3555.1	3431.3	2931.6	2173.3	1391.9	845.1	578.2	520.9	517.2	514.5	514.5
20°	3663.1	3489.5	2806.9	1836.2	987.3	564.3	491.4	495.0	496.9	493.3	494.2
22.5°	3788.7	3548.5	2658.2	1474.1	667.8	472.0	470.2	474.7	476.6	474.7	475.6
25°	3934.7	3616.9	2477.2	1094.5	482.2	448.0	452.5	459.1	463.6	463.6	463.6
27.5°	4115.7	3700.1	2259.2	763.9	416.6	423.0	436.0	448.0	454.4	456.3	456.3
30°	4351.3	3803.5	1997.8	523.7	378.7	389.8	413.8	436.9	448.9	450.8	451.6
32.5°	4648.6	3919.9	1694.9	387.0	346.3	354.6	380.5	419.3	442.4	446.1	446.1
35°	4989.5	4054.7	1368.8	337.1	323.2	326.0	346.3	390.7	431.3	441.5	442.4
37.5°	5362.6	4187.8	1040.9	315.0	303.9	303.9	318.7	356.5	404.6	436.0	439.7
40°	5710.9	4268.1	729.7	297.4	286.4	286.4	299.2	327.0	372.2	419.3	429.4
42.5°	6032.2	4295.8	508.0	280.8	269.7	272.5	283.6	305.7	339.9	387.0	396.3
45°	6362.9	4291.2	370.4	261.4	253.1	261.4	269.7	286.4	311.2	338.1	339.9
47.5°	6612.3	4252.4	293.7	242.9	237.4	248.4	255.8	266.9	280.8	278.9	278.9
50°	6845.9	4158.1	236.4	218.0	221.7	234.6	238.3	242.0	242.9	225.3	223.5
52.5°	7023.3	4011.3	189.4	191.2	206.0	218.9	215.2	209.7	200.5	179.2	175.5
55°	7082.4	3728.7	148.7	157.9	182.9	199.5	185.7	173.6	156.1	138.5	134.9
57.5°	6975.2	3363.8	121.0	122.9	154.3	168.1	152.4	138.5	119.1	104.3	101.6
60°	6748.0	2958.4	99.8	92.4	119.1	131.2	121.0	107.1	89.6	78.5	77.6
62.5°	6297.4	2526.2	82.2	72.0	90.5	100.7	94.2	84.0	69.3	61.9	60.9
65°	5349.7	2020.9	66.5	58.2	70.2	78.5	72.9	65.6	54.5	48.9	48.1
67.5°	3734.2	1366.0	54.5	48.1	55.4	61.9	57.3	53.6	43.4	42.5	43.4
70°	1801.1	658.5	45.3	38.8	43.4	48.1	46.2	43.4	41.5	48.1	55.4
72.5°	516.3	220.8	36.1	32.3	35.1	37.9	39.7	38.8	45.3	58.2	67.4
73°	397.1	178.3	34.2	30.5	33.3	37.0	38.8	37.9	46.2	59.2	67.4
75°	169.9	85.9	25.9	25.0	27.7	32.3	34.2	34.2	46.2	60.0	64.6
77.5°	76.7	46.2	16.6	19.4	24.0	25.9	28.6	28.6	37.0	46.2	46.2
80°	43.4	25.0	12.9	14.8	17.5	17.5	17.5	15.7	16.6	18.4	20.3
82.5°	27.7	16.6	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	5.5	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)