

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: P383294

Luminaire Tested: **GLEON-SA6A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383294
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-SA6A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 18438.1 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

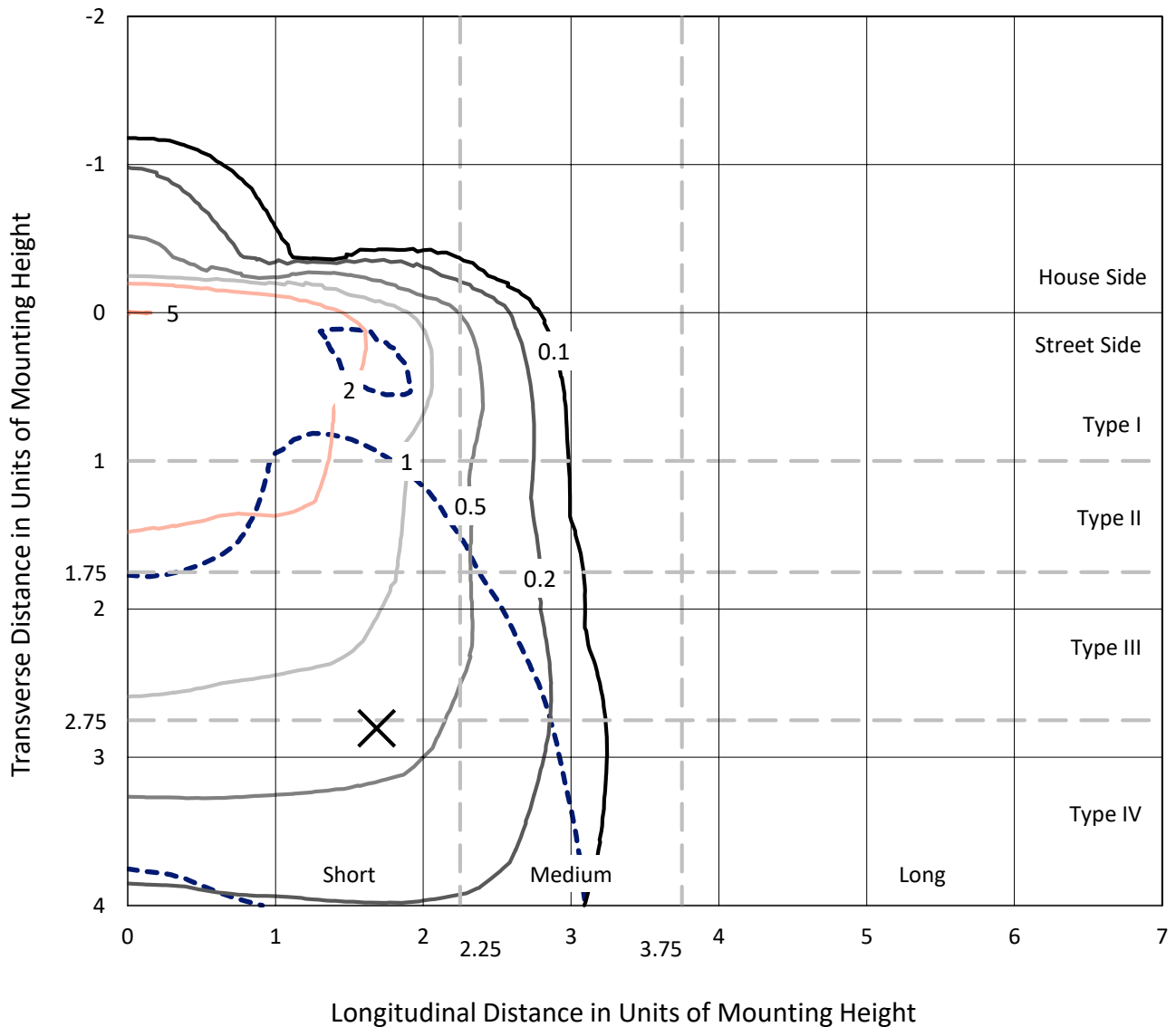
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383294
 CATALOG NUMBER: GLEON-SA6A-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

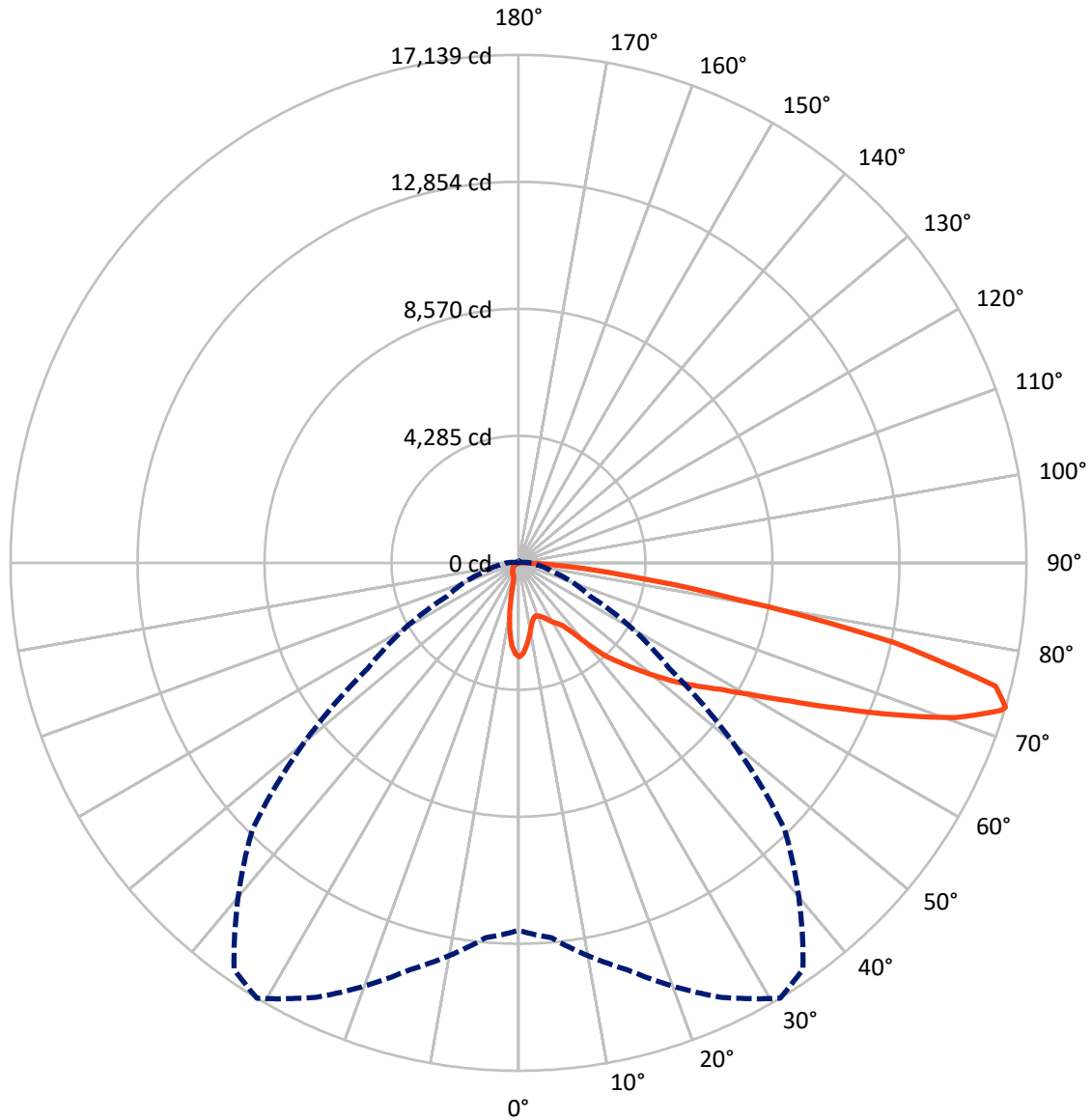
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P383294
CATALOG NUMBER: GLEON-SA6A-735-U-T4FT-HSS

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	1680.7	0.0	1680.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16757.4	0.0	16757.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	18438.1	0.0	18438.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	1.4
10°-20°	571.1	3.1
20°-30°	855.7	4.6
30°-40°	1361.4	7.4
40°-50°	2431.1	13.2
50°-60°	3772.4	20.5
60°-70°	5014.8	27.2
70°-80°	3772.2	20.5
80°-90°	396.4	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°	18438.1	100.0
0°-180°	18438.1	100.0

Coefficient of Utilization

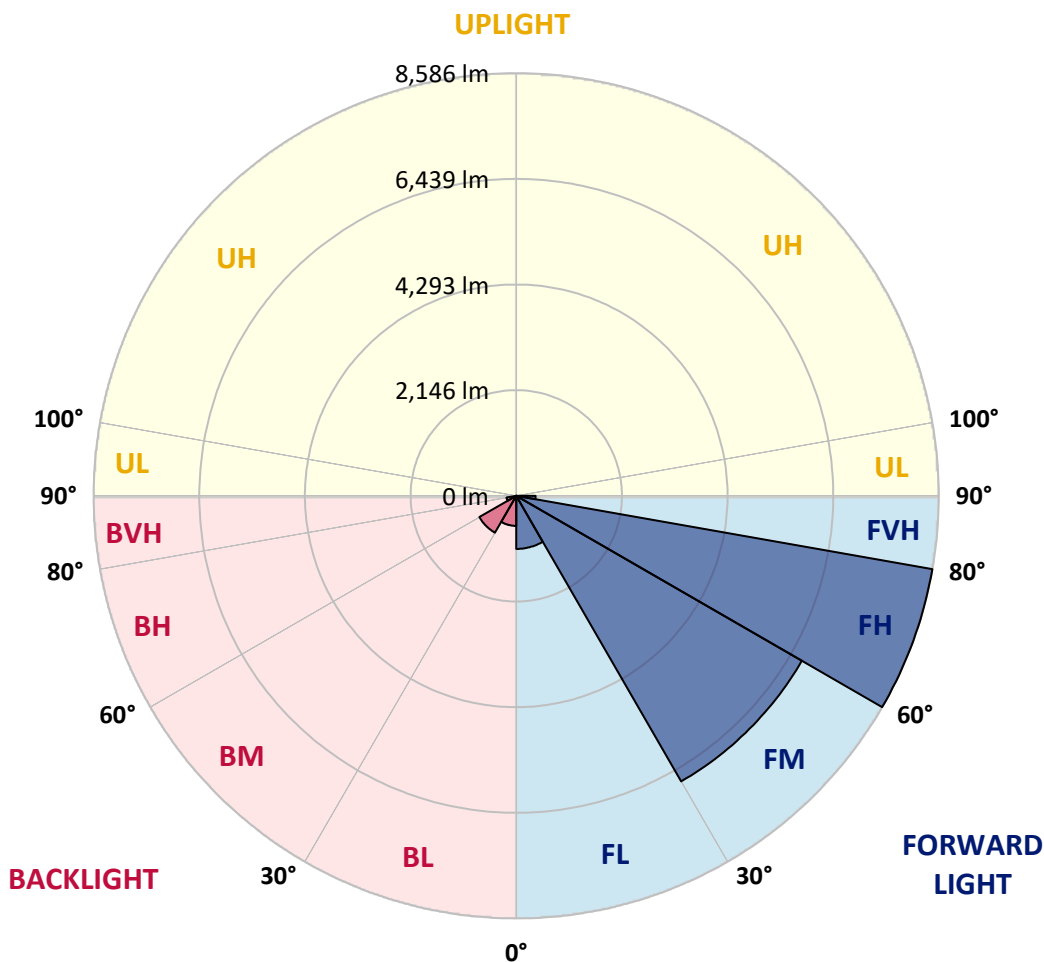


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1078.7	5.9			
FM (30°-60°)	6699.8	36.3			
FH (60°-80°)	8585.9	46.6			G4/12000
FVH (80°-90°)	393.0	2.1			G3/500
BL (0°-30°)	611.2	3.3	B2/1000		
BM (30°-60°)	865.1	4.7	B1/1000		
BH (60°-80°)	201.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CATALOG NUMBER: GLEON-SA6A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3
2.5°	3006.3	3019.0	3032.5	3035.2	3057.7	3058.6	3091.2	3115.5	3139.9	3163.3	3171.5
5°	2697.8	2718.4	2742.8	2767.2	2815.0	2834.0	2913.4	2994.6	3072.2	3146.1	3182.3
7.5°	2368.4	2391.8	2426.1	2486.6	2539.9	2576.8	2702.2	2846.6	2990.9	3127.2	3205.7
10°	2067.9	2089.6	2125.7	2189.8	2271.9	2322.4	2491.1	2691.4	2903.4	3110.1	3240.9
12.5°	1876.7	1888.4	1908.3	1976.8	2050.8	2107.6	2306.1	2554.3	2831.3	3109.1	3297.8
15°	1841.5	1845.1	1828.9	1859.6	1917.3	1972.4	2173.5	2443.3	2776.2	3123.6	3371.7
17.5°	1897.5	1895.6	1841.5	1837.9	1883.9	1929.0	2108.6	2366.6	2737.4	3157.0	3467.3
20°	1982.2	1975.9	1882.1	1865.0	1913.7	1956.1	2104.1	2337.7	2723.0	3212.9	3583.8
22.5°	2095.1	2084.2	1937.2	1919.1	1971.4	2015.6	2160.0	2365.7	2735.6	3287.8	3719.1
25°	2234.9	2218.7	2031.9	2012.0	2065.2	2109.5	2260.1	2446.0	2773.5	3378.9	3890.5
27.5°	2392.8	2369.3	2183.5	2132.0	2192.5	2238.5	2393.7	2568.7	2833.1	3475.5	4100.8
30°	2541.6	2511.0	2343.1	2258.4	2332.3	2383.7	2538.0	2714.9	2928.7	3624.4	4388.5
32.5°	2691.4	2657.1	2485.7	2384.7	2451.5	2507.4	2686.9	2916.1	3108.3	3851.7	4771.1
35°	3036.1	3000.0	2789.8	2622.9	2621.9	2653.5	2895.3	3191.3	3345.6	4168.4	5227.7
37.5°	3616.3	3595.5	3395.2	3078.5	2993.7	2958.5	3179.6	3519.7	3686.6	4604.2	5742.8
40°	4251.4	4233.3	4008.7	3721.8	3592.8	3506.2	3587.4	3977.1	4168.4	5136.6	6268.8
42.5°	4968.7	4883.0	4482.4	4396.7	4281.2	4215.3	4142.2	4541.0	4760.3	5715.8	6790.3
45°	5620.1	5475.7	4956.1	4826.2	4800.0	4816.2	4856.8	5298.9	5426.2	6404.2	7310.0
47.5°	6008.1	5894.4	5495.6	5371.1	5363.9	5471.3	5778.0	6155.2	6089.3	7004.2	7767.5
50°	6377.1	6274.3	5943.1	5973.8	6007.2	6153.3	6823.8	7035.8	6694.8	7548.2	8187.0
52.5°	6675.7	6518.8	6345.5	6517.9	6682.1	6917.6	7902.8	7826.1	7124.2	7981.3	8546.1
55°	6848.1	6776.8	6860.8	7033.9	7342.6	7725.0	8921.4	8483.9	7438.1	8376.5	8785.2
57.5°	7479.7	7339.8	7506.7	7656.5	8058.9	8594.0	9793.9	8973.8	7664.6	8621.0	8840.3
60°	8243.9	8131.1	8229.5	8478.5	9021.6	9650.5	10609.6	9373.5	7782.8	8778.0	8697.7
62.5°	9460.1	9311.2	9249.9	9528.7	10248.7	10935.3	11228.5	9650.5	7756.6	8708.6	8208.7
65°	11089.6	10935.3	10661.0	10913.6	11829.4	12313.9	11920.5	9709.1	7576.2	8146.4	6972.6
67.5°	12758.8	12646.9	12412.3	12838.1	13664.6	13820.7	12652.3	9566.5	6995.2	6605.4	4926.3
70°	13861.3	13813.5	13965.9	14907.9	15645.1	15600.0	13323.6	8800.5	5452.3	4061.9	2437.0
72.5°	13066.4	13295.6	14421.6	16129.6	17030.0	16661.8	12978.9	6757.8	3116.4	1562.7	704.6
73°	12407.7	12701.0	14216.8	16175.6	17139.2	16735.9	12689.3	6203.0	2656.2	1233.4	534.1
75°	8631.8	8991.9	11769.9	15064.9	16628.5	15945.5	10577.1	3796.7	1230.7	546.7	215.7
77.5°	4190.9	4457.1	6480.9	10884.8	12931.9	12458.3	6584.6	1414.7	555.8	342.0	99.2
80°	1564.5	1739.6	2813.2	5539.8	7473.3	7669.2	2896.2	535.1	369.9	275.2	50.5
82.5°	409.6	456.6	1037.6	2470.4	3830.1	4008.7	913.1	269.8	270.7	226.5	30.6
85°	130.8	149.8	323.9	1108.8	1804.5	1584.4	238.2	130.8	196.6	168.7	17.1
87.5°	16.2	20.8	102.8	260.7	397.9	221.1	37.0	38.8	83.9	93.8	10.0
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°	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3
2.5°	3179.6	3175.0	3175.9	3152.5	3137.2	3106.4	3074.9	3060.4	3045.1	3038.8	3045.1
5°	3195.8	3187.7	3164.2	3092.0	3015.3	2916.1	2823.1	2752.7	2664.3	2640.0	2665.3
7.5°	3221.0	3204.8	3136.2	2989.1	2818.7	2629.2	2416.2	2261.1	2133.8	2051.7	2081.4
10°	3258.0	3227.3	3089.3	2839.4	2534.5	2198.8	1896.5	1661.0	1494.1	1425.5	1422.8
12.5°	3320.3	3262.6	3031.5	2644.5	2187.1	1739.6	1343.5	1088.1	952.8	865.2	863.5
15°	3388.9	3304.0	2958.5	2410.8	1782.9	1246.0	865.2	671.3	583.8	555.8	552.2
17.5°	3472.8	3351.9	2863.8	2123.0	1359.7	825.5	564.8	508.9	505.3	502.6	502.6
20°	3578.4	3408.7	2741.9	1793.7	964.5	551.3	480.0	483.6	485.4	481.8	482.7
22.5°	3701.0	3466.5	2596.7	1440.0	652.4	461.0	459.3	463.7	465.6	463.7	464.7
25°	3843.6	3533.2	2419.9	1069.1	471.0	437.5	442.1	448.4	452.9	452.9	452.9
27.5°	4020.5	3614.4	2206.9	746.2	406.9	413.2	425.9	437.5	443.9	445.7	445.7
30°	4250.5	3715.5	1951.6	511.6	369.9	380.7	404.2	426.7	438.5	440.3	441.2
32.5°	4541.0	3829.1	1655.6	378.0	338.3	346.4	371.7	409.6	432.1	435.8	435.8
35°	4874.0	3960.8	1337.1	329.3	315.8	318.5	338.3	381.7	421.3	431.3	432.1
37.5°	5238.5	4090.8	1016.9	307.7	296.9	296.9	311.3	348.3	395.2	425.9	429.4
40°	5578.7	4169.3	712.8	290.5	279.7	279.7	292.3	319.4	363.6	409.6	419.6
42.5°	5892.6	4196.3	496.2	274.2	263.4	266.1	276.9	298.7	332.0	378.0	387.1
45°	6215.6	4191.9	361.8	255.3	247.2	255.3	263.4	279.7	304.1	330.2	332.0
47.5°	6459.3	4154.0	286.9	237.3	231.9	242.7	249.9	260.7	274.2	272.5	272.5
50°	6687.5	4061.9	230.9	213.0	216.6	229.2	232.8	236.4	237.3	220.1	218.4
52.5°	6860.8	3918.5	185.0	186.8	201.2	213.8	210.3	204.8	195.8	175.0	171.4
55°	6918.5	3642.4	145.2	154.3	178.7	194.9	181.4	169.6	152.5	135.4	131.7
57.5°	6813.8	3286.0	118.2	120.0	150.6	164.2	148.9	135.4	116.4	101.9	99.2
60°	6591.8	2889.9	97.4	90.3	116.4	128.1	118.2	104.7	87.5	76.7	75.8
62.5°	6151.6	2467.7	80.3	70.3	88.4	98.4	92.0	82.1	67.6	60.5	59.5
65°	5225.8	1974.1	64.9	56.8	68.6	76.7	71.3	64.1	53.2	47.8	46.9
67.5°	3647.8	1334.4	53.2	46.9	54.1	60.5	56.0	52.4	42.4	41.5	42.4
70°	1759.4	643.3	44.2	37.9	42.4	46.9	45.1	42.4	40.6	46.9	54.1
72.5°	504.3	215.7	35.2	31.6	34.3	37.0	38.8	37.9	44.2	56.8	65.9
73°	388.0	174.1	33.3	29.8	32.5	36.1	37.9	37.0	45.1	57.8	65.9
75°	166.0	83.9	25.2	24.4	27.1	31.6	33.3	33.3	45.1	58.7	63.2
77.5°	74.9	45.1	16.2	18.9	23.5	25.2	27.9	27.9	36.1	45.1	45.1
80°	42.4	24.4	12.7	14.4	17.1	17.1	17.1	15.4	16.2	18.1	19.8
82.5°	27.1	16.2	10.0	11.7	10.8	9.0	7.2	7.2	6.3	7.2	9.0
85°	15.4	9.0	9.0	7.2	4.5	3.6	4.5	3.6	0.9	0.0	0.9
87.5°	9.0	5.4	2.7	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)