

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: P383240

Luminaire Tested: **GLEON-SA5C-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383240  
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-SA5C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA 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: 23869 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

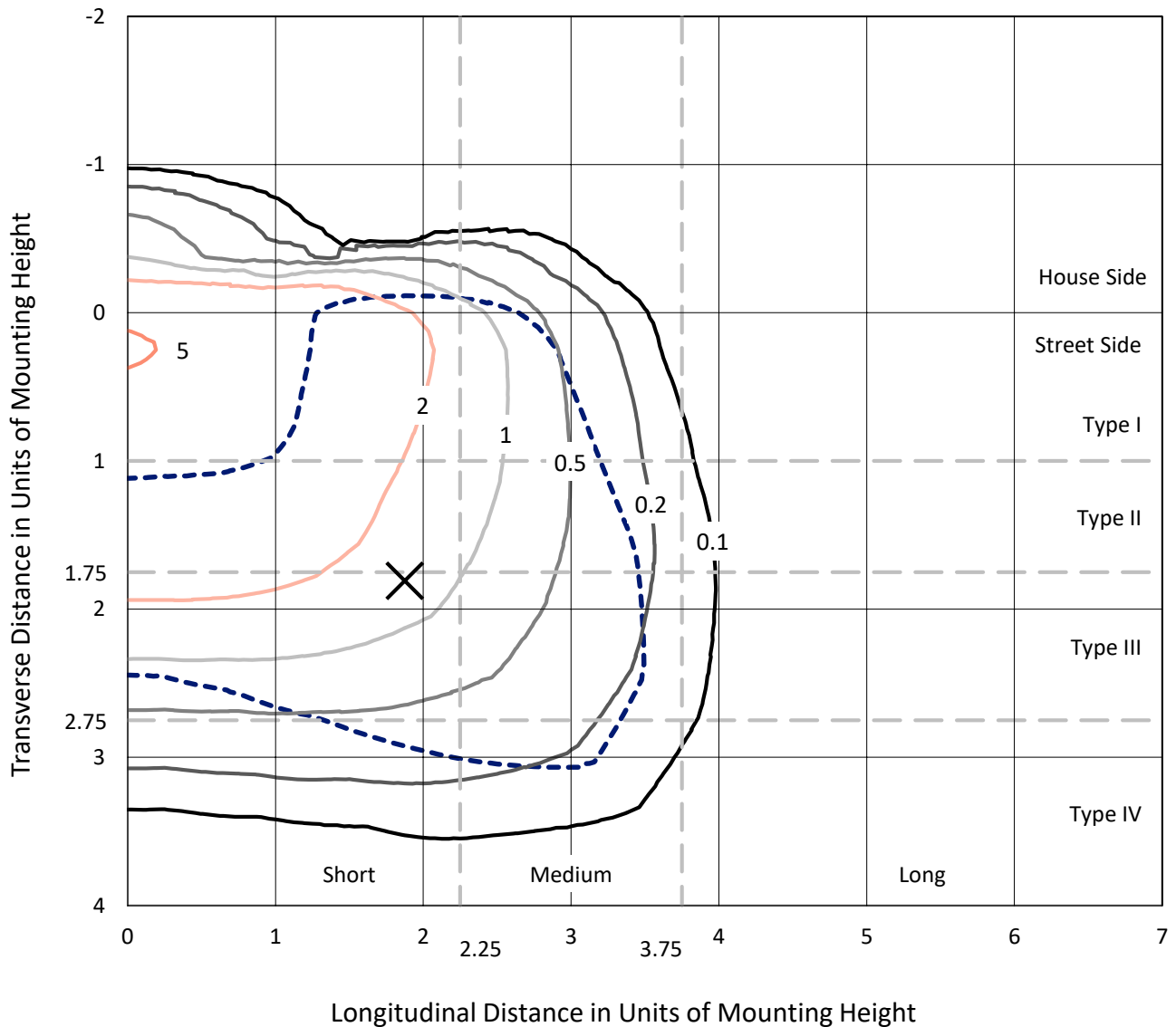
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

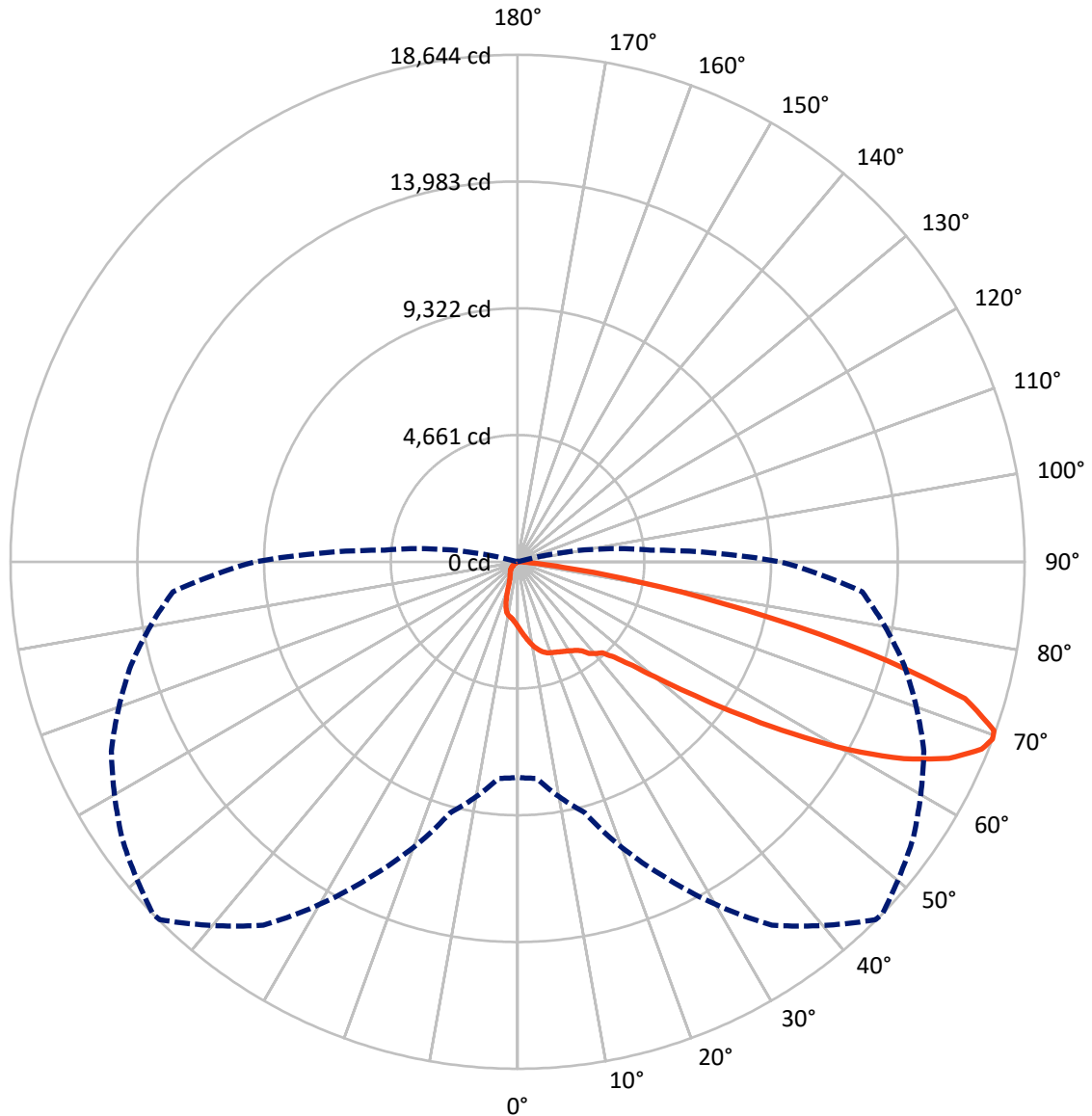
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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
<b>House Side</b>	Lumens	2449.6	0.0	2449.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	21419.4	0.0	21419.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	23869.0	0.0	23869.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.0	1.0
10°-20°	722.2	3.0
20°-30°	1135.7	4.8
30°-40°	1628.7	6.8
40°-50°	2814.9	11.8
50°-60°	5561.2	23.3
60°-70°	7772.2	32.6
70°-80°	3754.8	15.7
80°-90°	241.3	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°	23869.0	100.0
0°-180°	23869.0	100.0



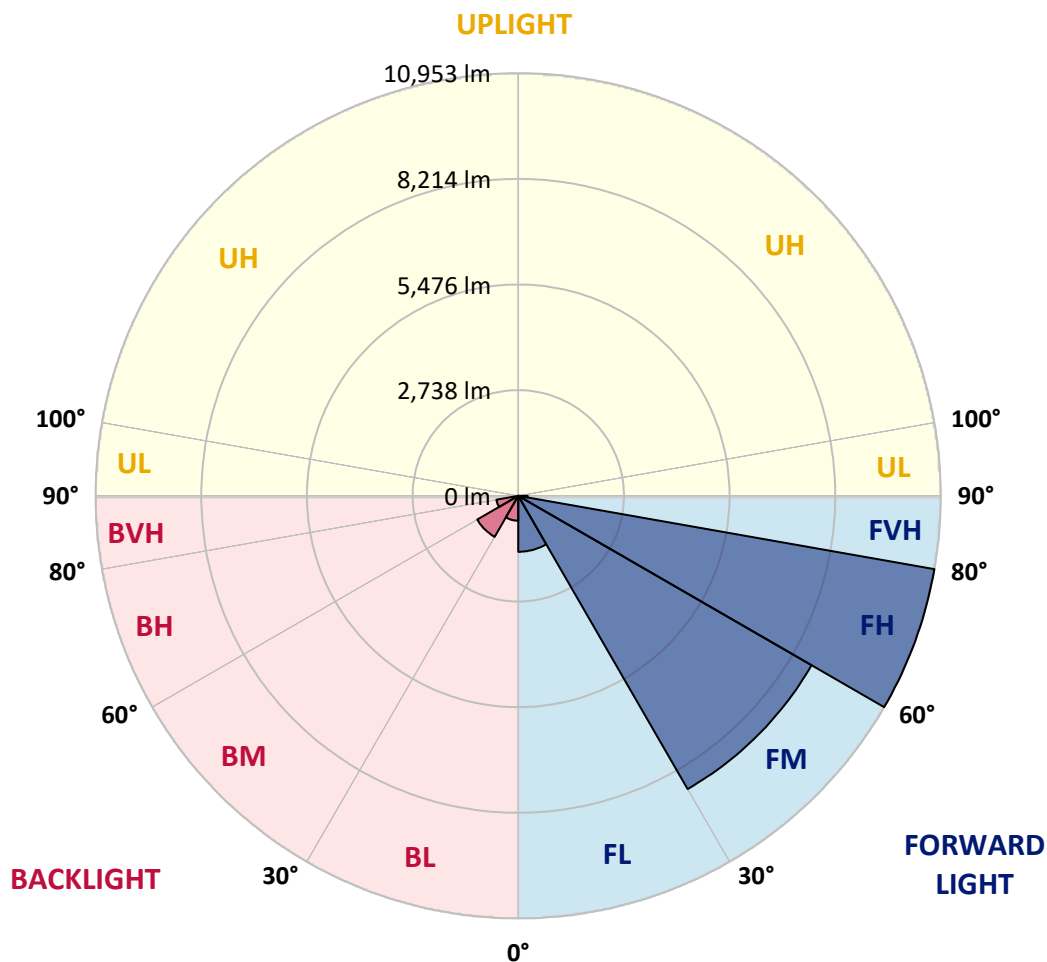
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.3	6.1			
FM (30°-60°)	8777.2	36.8			
FH (60°-80°)	10952.6	45.9			G4/12000
FVH (80°-90°)	239.3	1.0			G3/500
BL (0°-30°)	645.6	2.7	B2/1000		
BM (30°-60°)	1227.6	5.1	B2/2500		
BH (60°-80°)	574.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.0	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°	35°	45°	46°	55°	65°	75°	85°
0°	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6
2.5°	2656.9	2653.4	2637.8	2631.1	2593.1	2570.6	2561.7	2533.7	2493.5	2453.1	2408.3
5°	2959.0	2957.8	2928.8	2900.8	2829.2	2762.0	2749.7	2684.8	2594.2	2509.1	2424.1
7.5°	3267.9	3253.3	3224.2	3170.5	3066.5	2959.0	2948.9	2857.1	2728.4	2605.4	2483.3
10°	3529.7	3520.8	3482.8	3401.1	3279.0	3157.1	3144.8	3031.7	2886.2	2735.1	2579.6
12.5°	3733.5	3726.7	3676.4	3574.5	3444.7	3318.3	3301.4	3200.7	3045.1	2876.2	2692.6
15°	3857.6	3854.3	3792.7	3684.2	3556.6	3446.9	3432.4	3344.0	3199.6	3022.8	2815.7
17.5°	3886.8	3887.9	3824.1	3714.4	3609.2	3530.8	3519.7	3452.5	3331.7	3156.0	2938.8
20°	3821.9	3835.3	3778.2	3683.1	3618.1	3576.8	3567.8	3527.5	3425.7	3260.0	3037.3
22.5°	3730.1	3736.8	3697.6	3633.9	3607.0	3614.8	3610.3	3587.9	3501.8	3349.6	3134.7
25°	3674.1	3674.1	3650.6	3596.9	3614.8	3662.9	3664.1	3659.6	3591.3	3459.2	3253.3
27.5°	3671.9	3665.2	3638.3	3598.0	3647.3	3721.2	3725.6	3755.8	3713.2	3592.4	3401.1
30°	3761.4	3753.6	3696.5	3643.9	3706.5	3786.0	3797.3	3863.2	3842.0	3736.8	3565.6
32.5°	3970.7	3942.7	3816.3	3730.1	3777.1	3872.2	3886.8	3992.0	4025.5	3914.7	3724.5
35°	4257.2	4168.8	3986.4	3893.5	3898.0	3997.6	4011.0	4165.4	4265.0	4078.1	3847.6
37.5°	4652.2	4608.6	4312.0	4063.6	4083.7	4234.8	4273.9	4441.8	4413.9	4167.7	3987.5
40°	5518.5	5450.2	5134.6	4540.4	4261.6	4427.3	4439.6	4529.1	4531.3	4370.3	4278.4
42.5°	6698.0	6670.1	6337.7	5405.4	4611.9	4556.0	4578.4	4729.5	4898.4	4797.7	4793.3
45°	8004.0	7989.5	7637.0	6553.6	5320.3	4977.9	5005.9	5208.5	5531.9	5554.3	5696.4
47.5°	9054.9	9048.2	8845.6	7835.1	6404.8	5693.1	5702.0	5916.8	6485.3	6766.3	6993.5
50°	10012.9	10045.3	9885.3	9221.7	7882.1	6813.2	6792.0	6935.3	7848.5	8308.5	8590.5
52.5°	11344.7	11390.5	10941.8	10515.4	9432.1	8203.2	8186.4	8336.4	9486.9	9831.6	9882.0
55°	12520.8	12442.5	12087.8	11964.7	11322.3	9920.0	9915.5	10047.6	11071.6	11218.2	11311.1
57.5°	13040.2	13009.9	13181.1	13463.2	13302.0	11949.0	11938.9	11838.2	12489.5	12505.2	12790.6
60°	13368.1	13405.0	13929.9	14799.4	15201.2	14132.4	14067.5	13453.1	13843.7	13809.0	14114.5
62.5°	13121.9	13194.6	14139.1	15588.4	16622.5	16038.3	15946.5	14932.6	15000.9	14881.1	15165.4
65°	11814.7	11927.7	13475.5	15439.6	17327.5	17527.9	17435.0	16238.6	15919.7	15722.8	15564.9
67.5°	9593.2	9660.3	11276.4	14144.7	17009.7	18416.5	18397.4	17383.5	16613.5	15580.6	14356.3
69°	7927.9	7994.0	9549.6	12781.7	16310.3	18606.7	18643.6	17750.5	16481.5	14716.6	12720.1
70°	6714.8	6785.3	8234.6	11613.2	15498.9	18518.3	18584.4	17715.9	16103.2	13716.1	11284.2
72.5°	3521.9	3582.4	5069.7	8000.7	12635.0	17004.1	17204.5	16218.5	13650.1	9961.4	6672.3
75°	1106.9	1141.5	1979.7	4182.2	8650.9	13221.5	13267.3	12722.3	9692.8	5479.3	2778.8
77.5°	421.9	411.8	659.2	1541.1	4373.6	8325.2	8606.1	7950.3	5086.4	1937.2	641.3
80°	227.2	228.3	342.4	637.9	1871.2	4278.4	4515.7	3853.2	1807.4	604.3	147.7
82.5°	98.5	102.9	192.5	338.0	859.5	1577.9	1696.6	1412.3	690.5	406.2	54.9
85°	21.2	23.5	92.9	183.5	350.3	443.1	464.5	457.8	439.8	315.6	21.2
87.5°	0.0	0.0	41.5	66.0	88.4	100.7	88.4	115.2	242.9	212.7	11.2
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°	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6	2391.6
2.5°	2393.8	2373.7	2339.0	2300.9	2274.1	2246.1	2223.7	2213.6	2202.5	2194.6	2204.7
5°	2389.3	2350.2	2283.0	2218.1	2171.2	2133.1	2101.8	2089.5	2077.1	2068.1	2067.0
7.5°	2428.5	2373.7	2270.7	2175.6	2102.9	2051.4	2008.9	1990.9	1976.4	1969.7	1964.1
10°	2503.5	2433.0	2295.3	2171.2	2077.1	1989.8	1898.0	1827.5	1781.7	1760.4	1752.5
12.5°	2600.9	2512.5	2342.4	2194.6	2058.1	1890.2	1695.5	1527.6	1419.0	1383.3	1362.0
15°	2715.0	2605.4	2403.9	2224.8	1988.7	1682.1	1352.0	1132.6	1031.9	1011.7	989.3
17.5°	2824.7	2703.8	2477.7	2230.4	1836.5	1344.0	990.4	841.6	802.4	815.8	819.2
20°	2921.0	2801.2	2550.5	2181.2	1560.1	1008.3	766.6	729.7	744.2	769.9	774.4
22.5°	3018.3	2895.2	2617.6	2051.4	1206.4	765.5	690.5	699.5	714.0	739.7	744.2
25°	3136.9	3009.4	2680.3	1813.0	905.4	651.3	655.8	669.2	683.8	707.3	709.6
27.5°	3273.5	3153.8	2721.7	1503.0	671.5	598.7	613.3	633.5	648.0	670.3	674.8
30°	3454.7	3344.0	2735.1	1181.8	562.9	551.8	558.5	583.1	604.3	624.5	627.9
32.5°	3624.8	3532.0	2690.4	892.0	521.5	508.1	508.1	522.6	547.3	566.3	570.8
35°	3781.5	3721.2	2547.1	652.5	490.2	467.8	456.6	456.6	472.3	487.9	492.4
37.5°	3988.6	3986.4	2315.5	520.4	460.0	434.2	410.7	392.8	387.2	390.6	392.8
40°	4343.3	4346.7	2013.4	466.7	434.2	399.5	363.7	331.3	301.1	291.0	289.9
42.5°	4897.3	4846.9	1696.6	440.9	411.8	363.7	310.0	266.3	219.4	204.8	203.6
45°	5777.0	5478.2	1360.9	417.4	388.4	323.4	256.3	196.9	158.9	147.7	147.7
47.5°	7058.3	6307.4	1054.2	391.7	357.0	277.5	193.6	142.2	116.4	110.8	111.9
50°	8383.5	7119.9	808.0	359.2	319.0	229.4	143.3	102.9	88.4	88.4	89.5
52.5°	9558.5	7715.3	630.1	324.6	271.9	180.2	108.5	80.6	73.9	72.8	73.9
55°	10658.7	8099.2	482.4	284.2	216.0	134.3	82.8	66.0	61.6	59.3	58.2
57.5°	11719.6	8289.5	361.4	229.4	156.7	97.3	66.0	56.0	51.5	48.2	47.0
60°	12425.7	8135.0	248.4	169.0	108.5	70.5	54.9	48.2	42.6	39.1	38.0
62.5°	12824.2	7713.0	160.0	121.9	77.2	52.6	43.7	40.2	32.4	29.1	29.1
65°	12663.0	7017.0	111.9	87.3	56.0	39.1	32.4	32.4	23.5	19.0	17.9
67.5°	11221.5	5928.1	85.1	64.9	40.2	29.1	24.6	27.9	14.5	8.9	8.9
69°	9654.7	4913.0	72.8	53.8	33.5	23.5	21.2	25.7	10.1	6.7	5.6
70°	8391.3	4238.2	66.0	47.0	27.9	20.1	19.0	24.6	10.1	5.6	4.5
72.5°	5020.4	2363.6	50.4	33.5	17.9	15.6	15.6	27.9	10.1	5.6	4.5
75°	2029.0	832.6	36.9	23.5	13.4	13.4	19.0	35.8	8.9	4.5	3.4
77.5°	460.0	182.4	21.2	14.5	8.9	13.4	22.4	27.9	5.6	2.2	0.0
80°	111.9	44.8	13.4	8.9	5.6	10.1	16.8	15.6	1.1	0.0	0.0
82.5°	36.9	15.6	5.6	4.5	1.1	3.4	7.8	4.5	0.0	0.0	0.0
85°	15.6	8.9	2.2	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	10.1	3.4	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)