

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: P383128

Luminaire Tested: **GLEON-SA4C-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383128  
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-SA4C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 19263.5 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

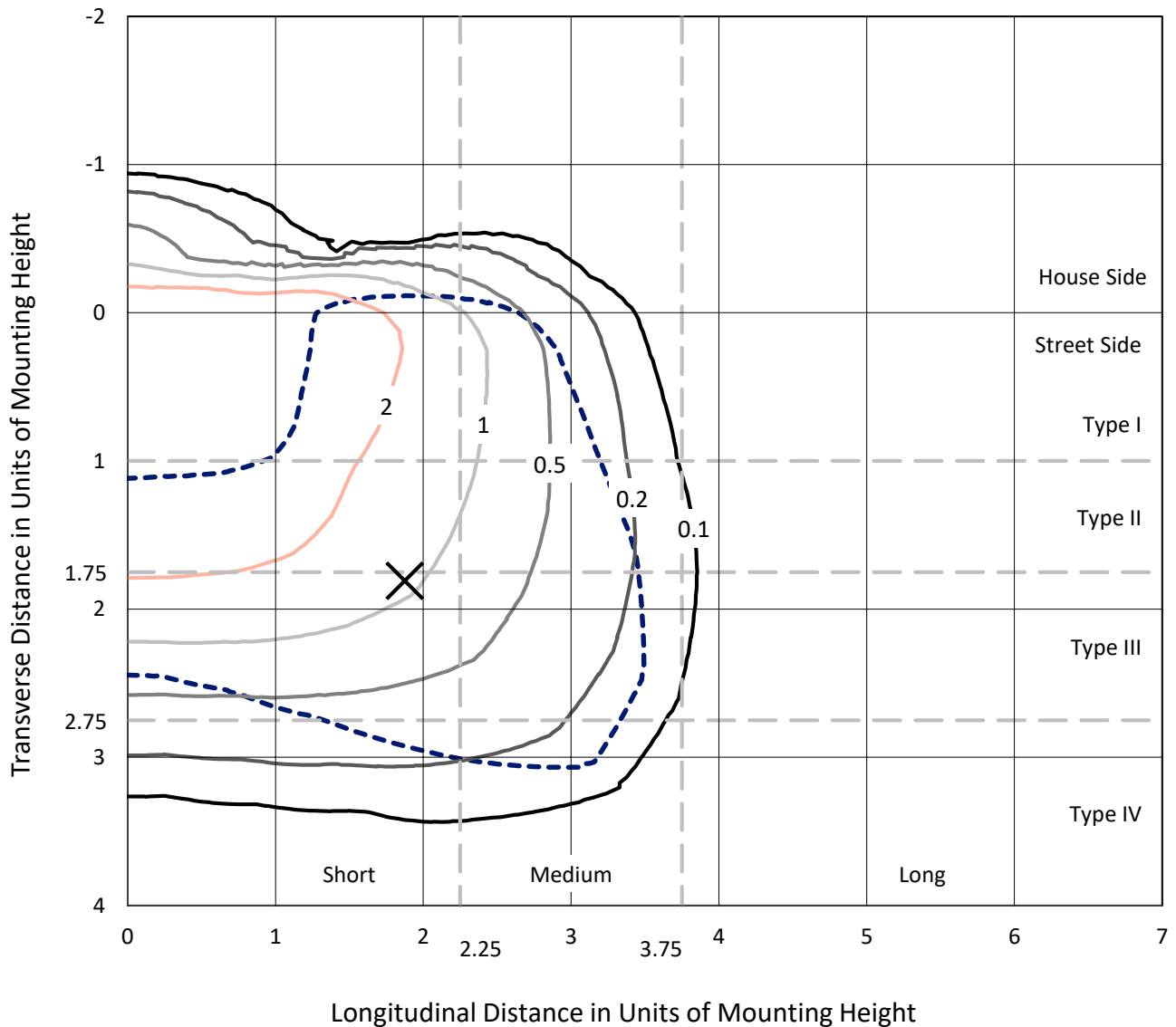
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

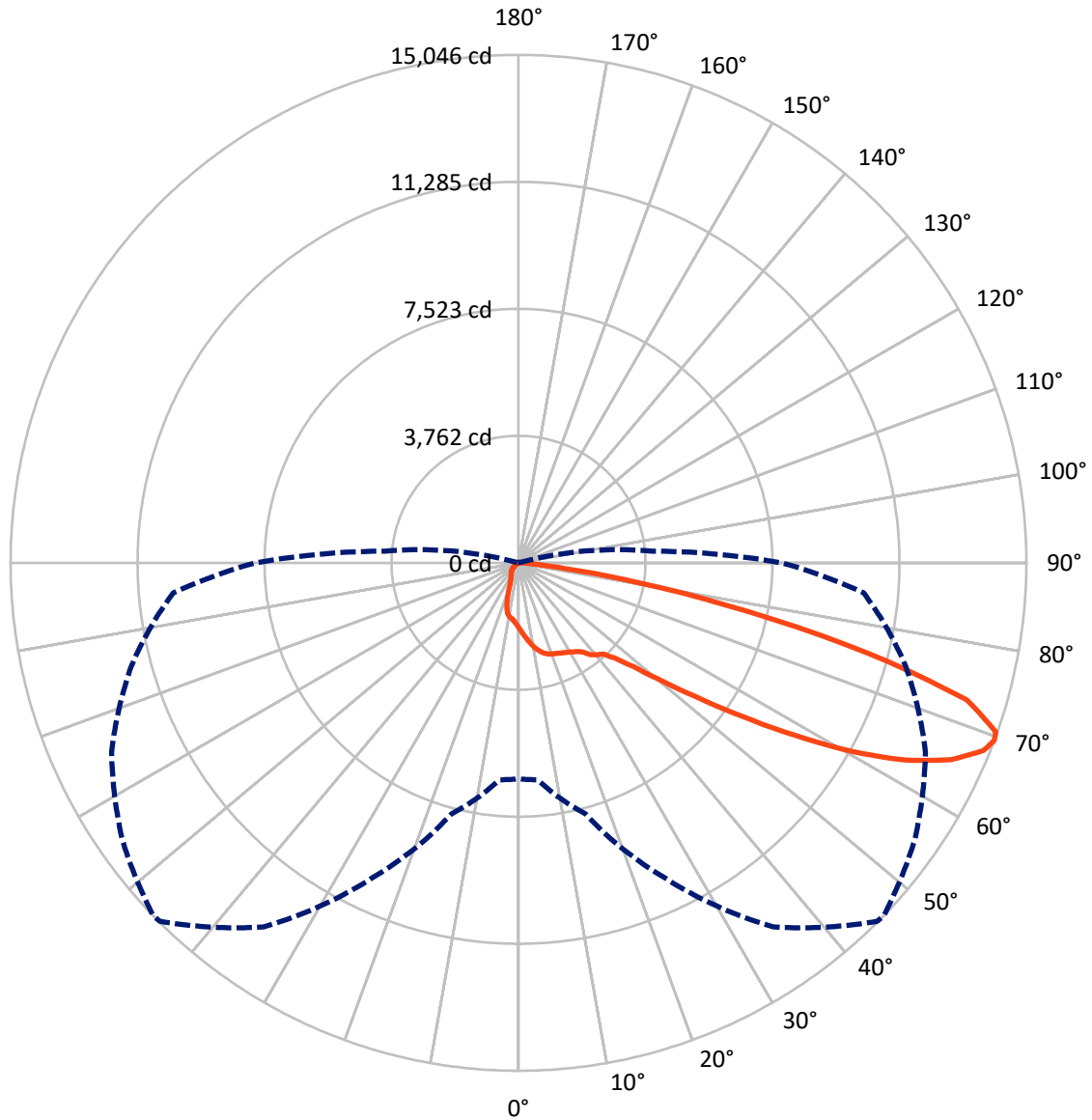
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1976.9	0.0	1976.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	17286.5	0.0	17286.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	19263.5	0.0	19263.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.1	1.0
10°-20°	582.8	3.0
20°-30°	916.6	4.8
30°-40°	1314.4	6.8
40°-50°	2271.8	11.8
50°-60°	4488.1	23.3
60°-70°	6272.5	32.6
70°-80°	3030.3	15.7
80°-90°	194.8	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°	19263.5	100.0
0°-180°	19263.5	100.0

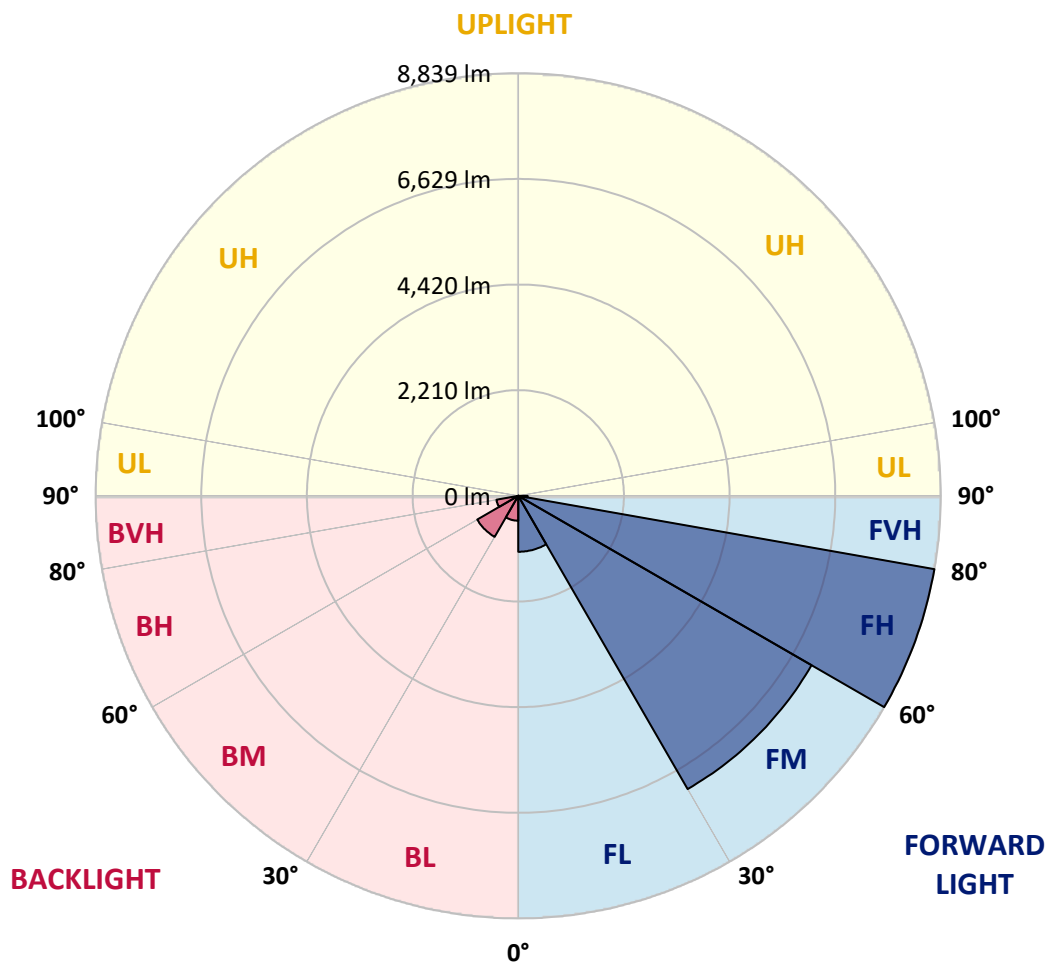


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.5	6.1			
FM (30°-60°)	7083.6	36.8			
FH (60°-80°)	8839.3	45.9			G4/12000
FVH (80°-90°)	193.1	1.0			G2/225
BL (0°-30°)	521.1	2.7	B2/1000		
BM (30°-60°)	990.7	5.1	B1/1000		
BH (60°-80°)	463.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2
2.5°	2144.1	2141.4	2128.9	2123.4	2092.7	2074.6	2067.4	2044.8	2012.3	1979.8	1943.7
5°	2388.0	2387.2	2363.6	2341.1	2283.3	2229.1	2219.1	2166.8	2093.6	2025.0	1956.3
7.5°	2637.3	2625.6	2602.1	2558.8	2474.7	2388.0	2379.9	2305.9	2202.0	2102.6	2004.2
10°	2848.7	2841.4	2810.8	2744.8	2646.3	2547.9	2538.0	2446.7	2329.3	2207.4	2081.8
12.5°	3013.1	3007.6	2967.0	2884.8	2780.0	2678.0	2664.4	2583.2	2457.6	2321.2	2173.1
15°	3113.3	3110.6	3061.0	2973.3	2870.4	2781.9	2770.1	2698.8	2582.2	2439.5	2272.4
17.5°	3136.8	3137.7	3086.2	2997.7	2912.8	2849.6	2840.6	2786.4	2688.8	2547.0	2371.8
20°	3084.4	3095.3	3049.1	2972.4	2920.0	2886.6	2879.4	2846.9	2764.6	2631.0	2451.3
22.5°	3010.4	3015.8	2984.1	2932.7	2911.0	2917.3	2913.7	2895.6	2826.1	2703.3	2529.8
25°	2965.2	2965.2	2946.2	2902.9	2917.3	2956.2	2957.1	2953.5	2898.3	2791.8	2625.6
27.5°	2963.3	2957.9	2936.3	2903.7	2943.5	3003.1	3006.8	3031.2	2996.8	2899.3	2744.8
30°	3035.6	3029.3	2983.3	2940.8	2991.4	3055.5	3064.5	3117.8	3100.7	3015.8	2877.6
32.5°	3204.5	3182.0	3079.9	3010.4	3048.3	3125.1	3136.8	3221.7	3248.8	3159.3	3005.8
35°	3435.7	3364.4	3217.2	3142.2	3145.8	3226.2	3237.0	3361.7	3442.1	3291.3	3105.2
37.5°	3754.6	3719.4	3480.0	3279.5	3295.7	3417.7	3449.3	3584.8	3562.2	3363.5	3218.1
40°	4453.6	4398.6	4143.9	3664.2	3439.4	3573.0	3583.0	3655.2	3657.1	3526.9	3452.9
42.5°	5405.6	5383.0	5114.8	4362.4	3722.1	3676.9	3695.0	3816.9	3953.3	3872.0	3868.3
45°	6459.6	6447.9	6163.4	5289.1	4293.8	4017.4	4040.0	4203.5	4464.5	4482.5	4597.3
47.5°	7307.7	7302.3	7138.8	6323.3	5169.0	4594.6	4601.8	4775.2	5234.0	5460.7	5644.1
50°	8080.9	8107.1	7978.0	7442.3	6361.2	5498.6	5481.5	5597.1	6334.2	6705.3	6932.9
52.5°	9155.7	9192.7	8830.5	8486.4	7612.1	6620.4	6606.9	6727.9	7656.4	7934.5	7975.3
55°	10105.0	10041.7	9755.4	9656.0	9137.6	8005.9	8002.3	8108.8	8935.3	9053.6	9128.6
57.5°	10524.1	10499.7	10637.8	10865.5	10735.3	9643.4	9635.3	9554.0	10079.6	10092.3	10322.6
60°	10788.6	10818.4	11242.1	11943.8	12268.1	11405.6	11353.1	10857.3	11172.5	11144.6	11391.1
62.5°	10589.9	10648.7	11411.0	12580.6	13415.1	12943.7	12869.6	12051.3	12106.4	12009.8	12239.2
65°	9535.0	9626.2	10875.4	12460.5	13984.2	14145.8	14070.8	13105.4	12847.9	12689.0	12561.6
67.5°	7742.2	7796.4	9100.6	11415.5	13727.7	14862.9	14847.7	14029.3	13408.0	12574.3	11586.2
69°	6398.2	6451.5	7707.0	10315.4	13163.1	15016.5	15046.4	14325.6	13301.4	11877.0	10265.7
70°	5419.2	5476.1	6645.8	9372.5	12508.4	14945.2	14998.5	14297.6	12996.1	11069.6	9106.9
72.5°	2842.3	2891.2	4091.5	6456.9	10197.1	13723.2	13884.8	13089.1	11016.3	8039.3	5384.8
75°	893.3	921.3	1597.8	3375.3	6981.7	10670.3	10707.4	10267.5	7822.6	4422.1	2242.6
77.5°	340.5	332.4	532.0	1243.7	3529.7	6718.9	6945.5	6416.3	4105.1	1563.4	517.6
80°	183.3	184.3	276.4	514.9	1510.1	3452.9	3644.4	3109.7	1458.6	487.8	119.2
82.5°	79.5	83.1	155.4	272.8	693.6	1273.5	1369.3	1139.8	557.3	327.9	44.2
85°	17.1	19.0	75.0	148.1	282.7	357.6	374.9	369.5	354.9	254.7	17.1
87.5°	0.0	0.0	33.4	53.3	71.4	81.3	71.4	93.1	196.0	171.6	9.0
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°	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2
2.5°	1931.9	1915.6	1887.7	1856.9	1835.3	1812.7	1794.6	1786.5	1777.5	1771.2	1779.3
5°	1928.3	1896.7	1842.5	1790.2	1752.2	1721.5	1696.2	1686.3	1676.3	1669.1	1668.2
7.5°	1960.0	1915.6	1832.5	1755.8	1697.1	1655.5	1621.3	1606.8	1595.1	1589.6	1585.1
10°	2020.4	1963.5	1852.5	1752.2	1676.3	1605.9	1531.8	1474.9	1437.8	1420.7	1414.4
12.5°	2099.1	2027.7	1890.4	1771.2	1660.9	1525.5	1368.4	1232.9	1145.2	1116.4	1099.2
15°	2191.2	2102.6	1940.0	1795.6	1605.0	1357.5	1091.0	914.0	832.7	816.5	798.4
17.5°	2279.7	2182.2	1999.7	1800.0	1482.2	1084.7	799.4	679.2	647.6	658.4	661.1
20°	2357.4	2260.7	2058.3	1760.3	1259.1	813.8	618.7	588.9	600.7	621.4	625.0
22.5°	2435.9	2336.6	2112.6	1655.5	973.7	617.8	557.3	564.5	576.3	597.0	600.7
25°	2531.7	2428.7	2163.1	1463.2	730.7	525.7	529.3	540.1	551.8	570.9	572.6
27.5°	2641.9	2545.2	2196.6	1213.0	541.9	483.2	494.9	511.2	523.0	541.0	544.6
30°	2788.1	2698.8	2207.4	953.8	454.3	445.3	450.7	470.5	487.8	504.0	506.7
32.5°	2925.4	2850.4	2171.3	719.8	420.9	410.1	410.1	421.8	441.6	457.0	460.7
35°	3051.9	3003.1	2055.6	526.6	395.6	377.6	368.5	368.5	381.2	393.8	397.4
37.5°	3219.0	3217.2	1868.7	419.9	371.2	350.4	331.4	317.0	312.5	315.2	317.0
40°	3505.3	3508.0	1624.8	376.6	350.4	322.4	293.5	267.4	242.9	234.8	233.9
42.5°	3952.4	3911.8	1369.3	355.9	332.4	293.5	250.2	215.0	177.0	165.3	164.4
45°	4662.3	4421.1	1098.3	336.8	313.4	261.0	206.8	158.9	128.3	119.2	119.2
47.5°	5696.4	5090.4	850.8	316.1	288.1	224.0	156.2	114.7	93.9	89.4	90.4
50°	6765.8	5746.2	652.1	289.9	257.4	185.2	115.6	83.1	71.4	71.4	72.3
52.5°	7714.1	6226.7	508.5	262.0	219.5	145.4	87.6	65.0	59.6	58.7	59.6
55°	8602.0	6536.4	389.3	229.4	174.3	108.3	66.8	53.3	49.7	47.9	46.9
57.5°	9458.3	6690.0	291.8	185.2	126.4	78.6	53.3	45.2	41.5	38.8	37.9
60°	10028.2	6565.4	200.5	136.4	87.6	56.9	44.2	38.8	34.3	31.6	30.7
62.5°	10349.7	6224.8	129.1	98.5	62.3	42.5	35.2	32.5	26.2	23.5	23.5
65°	10219.6	5663.1	90.4	70.4	45.2	31.6	26.2	26.2	19.0	15.4	14.4
67.5°	9056.3	4784.2	68.7	52.4	32.5	23.5	19.8	22.5	11.7	7.3	7.3
69°	7791.8	3965.0	58.7	43.3	27.1	19.0	17.1	20.8	8.1	5.4	4.5
70°	6772.2	3420.4	53.3	37.9	22.5	16.3	15.4	19.8	8.1	4.5	3.6
72.5°	4051.8	1907.5	40.6	27.1	14.4	12.7	12.7	22.5	8.1	4.5	3.6
75°	1637.5	672.0	29.8	19.0	10.8	10.8	15.4	28.9	7.3	3.6	2.7
77.5°	371.2	147.2	17.1	11.7	7.3	10.8	18.1	22.5	4.5	1.8	0.0
80°	90.4	36.1	10.8	7.3	4.5	8.1	13.5	12.7	0.9	0.0	0.0
82.5°	29.8	12.7	4.5	3.6	0.9	2.7	6.3	3.6	0.0	0.0	0.0
85°	12.7	7.3	1.8	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	8.1	2.7	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)