

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: P269161

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL4-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15002.9 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

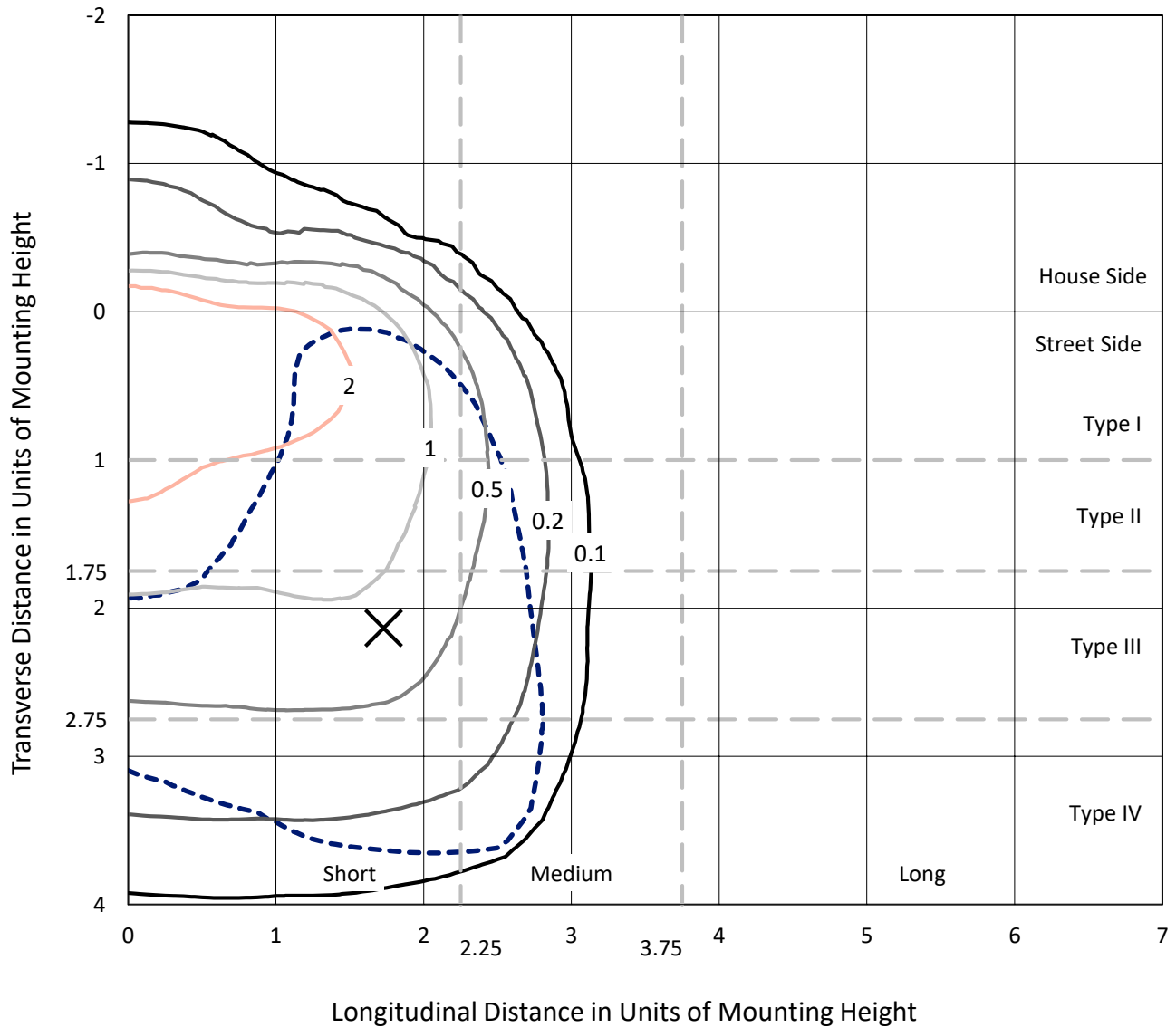
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

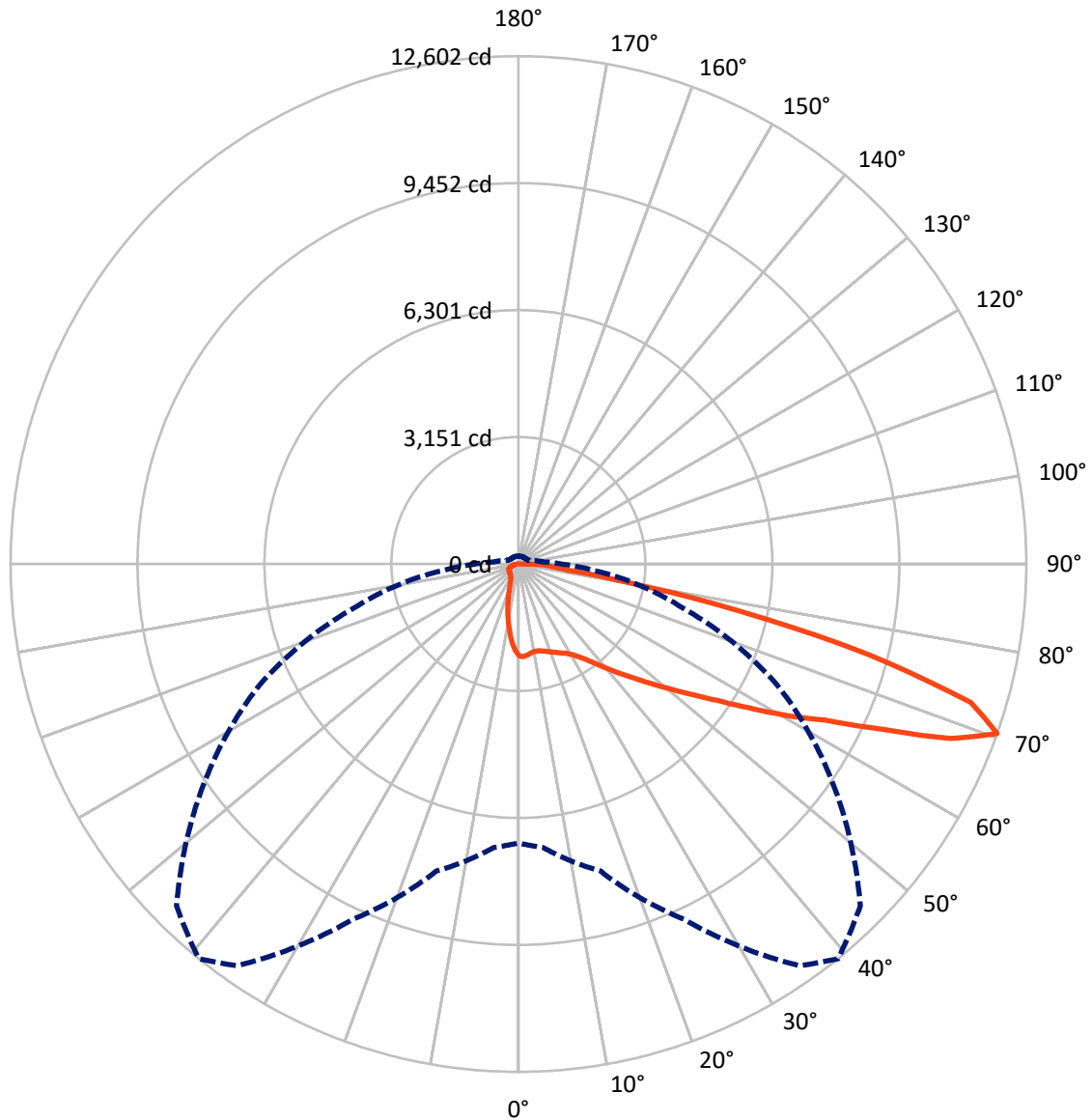
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1706.3	0.0	1706.3
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	13296.6	0.0	13296.6
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	15002.9	0.0	15002.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.5	1.3
10°-20°	488.6	3.3
20°-30°	760.8	5.1
30°-40°	1185.1	7.9
40°-50°	1989.6	13.3
50°-60°	3160.7	21.1
60°-70°	4216.0	28.1
70°-80°	2545.9	17.0
80°-90°	460.8	3.1
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°	15002.9	100.0
0°-180°	15002.9	100.0



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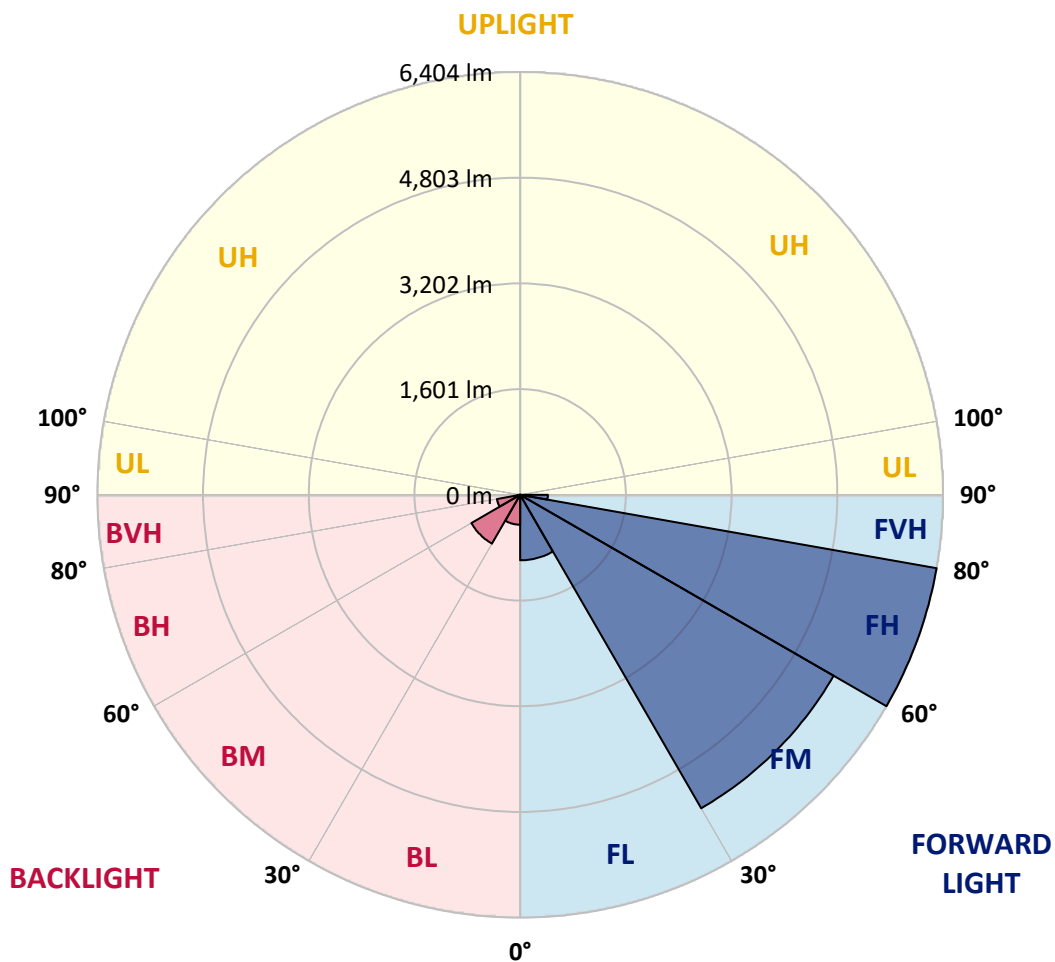
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.2	6.6			
FM	(30°-60°)	5481.5	36.5			
FH	(60°-80°)	6403.7	42.7			G3/7500
FVH	(80°-90°)	419.2	2.8			G3/500
BL	(0°-30°)	452.7	3.0	B1/500		
BM	(30°-60°)	853.9	5.7	B1/1000		
BH	(60°-80°)	358.2	2.4	B1/500		G1/500
BVH	(80°-90°)	41.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7
2.5°	2321.8	2321.2	2315.0	2310.5	2306.7	2305.1	2308.1	2296.7	2286.8	2274.6	2261.7
5°	2304.4	2303.7	2293.7	2284.5	2275.3	2272.4	2271.5	2251.1	2238.8	2220.5	2196.0
7.5°	2285.3	2281.4	2268.5	2253.3	2237.3	2229.7	2222.0	2195.3	2181.5	2163.3	2135.0
10°	2265.4	2260.9	2248.6	2233.5	2218.2	2206.7	2193.8	2167.8	2153.3	2139.7	2106.9
12.5°	2244.9	2241.0	2237.9	2231.1	2220.5	2210.5	2200.7	2178.5	2163.3	2147.3	2109.1
15°	2241.8	2240.4	2247.2	2251.7	2245.7	2239.6	2228.9	2209.8	2193.8	2177.8	2128.2
17.5°	2266.2	2265.4	2283.0	2295.2	2292.1	2281.4	2267.1	2245.7	2232.6	2219.0	2157.2
20°	2319.7	2323.5	2344.8	2360.8	2345.6	2330.4	2306.7	2276.9	2270.0	2264.0	2187.0
22.5°	2420.4	2424.2	2439.3	2445.5	2405.8	2383.7	2351.0	2312.7	2308.1	2312.7	2222.8
25°	2577.4	2573.6	2571.4	2548.4	2476.0	2441.7	2399.7	2360.0	2362.4	2382.9	2273.2
27.5°	2785.7	2765.2	2733.1	2664.5	2549.2	2511.1	2460.0	2423.4	2437.9	2477.5	2348.6
30°	3001.5	2978.7	2904.7	2792.6	2645.4	2603.4	2546.2	2505.1	2543.1	2605.7	2449.3
32.5°	3201.4	3198.3	3090.0	2945.9	2778.1	2741.4	2684.2	2637.8	2699.4	2794.8	2600.4
35°	3419.6	3426.4	3296.8	3123.5	2957.3	2919.2	2878.0	2842.9	2925.3	3056.5	2819.2
37.5°	3653.0	3666.7	3513.5	3318.1	3161.8	3145.8	3121.3	3106.1	3233.4	3414.9	3125.2
40°	3964.9	3951.3	3738.3	3537.7	3412.8	3411.9	3404.2	3422.6	3634.7	3883.4	3517.9
42.5°	4299.1	4258.7	3977.2	3773.5	3688.1	3714.0	3729.3	3804.1	4117.6	4452.4	3997.0
45°	4659.1	4568.3	4225.1	4022.9	3994.0	4048.9	4100.8	4263.1	4685.7	5099.9	4521.8
47.5°	4946.6	4858.9	4481.4	4284.6	4347.8	4431.0	4531.0	4788.0	5322.0	5768.9	5039.8
50°	5173.2	5115.9	4739.9	4589.7	4737.7	4865.8	5029.0	5382.3	5984.1	6420.4	5519.5
52.5°	5392.9	5350.1	5000.9	4902.4	5195.3	5372.4	5594.3	6019.9	6662.9	7061.0	5923.1
55°	5591.2	5560.7	5281.6	5292.3	5733.8	5964.2	6243.4	6746.1	7402.8	7632.4	6264.8
57.5°	5814.6	5775.8	5601.9	5781.1	6425.7	6724.7	7087.7	7562.2	8097.0	8140.4	6524.8
60°	6039.8	6006.2	5957.4	6345.5	7304.5	7618.6	7962.8	8353.2	8801.1	8534.7	6509.6
62.5°	6235.0	6238.8	6325.1	6938.2	8164.9	8528.7	8948.2	9334.2	9438.0	8603.4	6028.3
65°	6566.0	6626.3	6883.4	7777.3	9376.1	9862.9	10377.7	10315.9	9614.1	7961.9	4996.3
67.5°	6959.7	7065.7	7586.6	8895.6	10907.1	11553.1	11752.3	10537.8	8908.6	6472.3	3561.4
70°	6920.1	7065.7	7890.3	9729.4	12168.7	12602.0	11997.9	9537.0	7074.1	4228.1	1891.7
72.5°	6144.9	6353.3	7271.6	9347.1	11771.3	11733.1	10415.8	7109.9	4202.9	1697.9	739.1
75°	4683.6	4894.1	5684.2	7384.5	9303.7	8983.3	7390.6	3927.6	1595.0	674.3	466.1
77.5°	2694.1	2857.4	3467.5	4528.6	5902.5	5573.7	4113.7	1746.8	776.6	469.9	363.9
80°	1504.2	1595.0	1965.8	2297.5	2892.5	2651.4	1840.5	1085.4	579.8	340.9	280.7
82.5°	1189.1	1270.1	1589.6	1449.2	1321.1	1218.9	1057.2	966.4	462.9	215.1	167.9
85°	1038.9	1116.0	1345.5	1141.1	902.3	827.6	858.9	951.1	360.0	129.6	143.4
87.5°	962.7	1065.6	1199.1	879.5	702.6	622.4	792.6	1042.8	115.9	80.8	58.0
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°	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7	2277.7
2.5°	2250.3	2237.9	2218.2	2200.7	2173.2	2158.6	2142.6	2131.1	2122.1	2114.4	2126.6
5°	2180.8	2157.9	2116.0	2071.0	2017.6	1975.6	1940.5	1907.7	1884.9	1869.6	1880.2
7.5°	2115.1	2077.8	2012.3	1930.5	1839.1	1761.2	1697.2	1640.8	1601.9	1576.6	1586.5
10°	2077.8	2031.2	1929.9	1801.7	1666.6	1545.4	1444.7	1357.8	1297.5	1263.1	1268.4
12.5°	2068.6	2008.4	1868.0	1691.9	1507.3	1338.7	1196.8	1076.3	991.5	947.4	948.9
15°	2075.5	1998.5	1810.1	1586.5	1353.1	1140.4	963.4	817.0	718.6	668.2	667.4
17.5°	2087.0	1990.9	1749.1	1473.0	1196.8	949.7	752.2	608.7	521.7	481.3	478.3
20°	2099.2	1978.6	1680.4	1350.2	1034.4	772.7	588.8	476.7	421.8	399.7	398.2
22.5°	2116.8	1967.9	1609.5	1220.4	874.9	629.4	484.4	408.9	379.9	368.5	366.9
25°	2145.0	1962.6	1533.9	1085.4	731.5	526.3	421.8	375.3	358.6	350.9	350.1
27.5°	2192.3	1970.3	1463.0	954.2	614.8	456.9	386.7	358.6	346.2	339.4	338.8
30°	2253.3	1993.9	1388.3	829.9	524.0	409.5	365.4	347.0	337.1	330.2	330.2
32.5°	2354.6	2033.7	1309.6	722.3	459.3	376.7	349.4	337.1	328.8	323.4	322.6
35°	2504.3	2108.3	1236.4	633.1	412.7	353.2	335.6	326.4	320.3	317.3	317.3
37.5°	2721.7	2226.5	1171.6	569.0	384.5	337.1	322.6	315.8	312.0	312.0	312.0
40°	3013.8	2389.9	1119.0	526.3	368.5	325.7	312.7	307.4	305.2	305.9	305.9
42.5°	3374.6	2601.9	1084.0	496.6	360.8	318.9	305.9	301.3	299.0	298.2	299.0
45°	3785.6	2842.9	1080.1	474.5	353.2	314.2	301.3	296.7	292.2	289.2	289.2
47.5°	4185.5	3087.7	1111.4	466.8	344.8	308.9	297.5	292.8	286.0	279.2	279.2
50°	4538.5	3296.1	1153.3	469.9	341.7	301.3	291.4	289.2	278.5	270.7	270.0
52.5°	4819.2	3456.1	1187.6	479.1	344.8	295.9	283.8	284.6	273.1	264.7	263.9
55°	5044.3	3561.4	1178.4	488.1	351.6	292.8	276.9	278.5	269.2	260.9	260.9
57.5°	5142.6	3522.6	1077.1	480.6	356.9	293.7	271.6	277.7	270.0	262.3	262.3
60°	4931.4	3176.9	887.2	446.9	350.1	291.4	269.2	280.7	279.9	272.4	271.6
62.5°	4292.2	2558.5	688.0	397.4	326.4	279.9	263.2	279.9	288.4	286.0	285.3
65°	3308.2	1822.3	525.6	344.1	294.5	260.9	247.2	262.3	273.9	276.9	276.0
67.5°	2147.3	1116.8	405.0	293.7	258.6	238.8	226.6	233.4	235.6	235.6	234.2
70°	1055.7	601.1	322.6	247.2	222.1	215.1	208.2	204.5	200.6	197.5	197.5
72.5°	520.9	392.7	265.4	208.9	191.5	188.5	186.8	182.3	179.2	175.4	173.9
75°	385.3	319.5	225.7	176.2	164.7	161.8	164.7	160.9	160.2	157.2	155.5
77.5°	316.6	272.4	194.6	151.1	141.2	135.7	140.3	141.2	141.9	137.4	135.7
80°	257.1	230.3	162.5	125.1	115.9	112.1	115.3	121.4	122.8	115.9	112.8
82.5°	185.4	188.5	131.2	97.6	90.0	87.0	93.1	100.7	102.1	92.3	90.0
85°	155.5	157.2	100.7	69.3	61.9	57.2	67.2	74.7	80.0	70.2	67.9
87.5°	64.9	92.3	58.0	38.8	34.3	29.7	35.8	39.6	48.1	44.2	43.5
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)