

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: P192032

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192032  
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-04-LED-E1-SL4-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA 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: 15033 lumens  
Efficiency: N/A  
Efficacy: 116.5 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): 129  
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

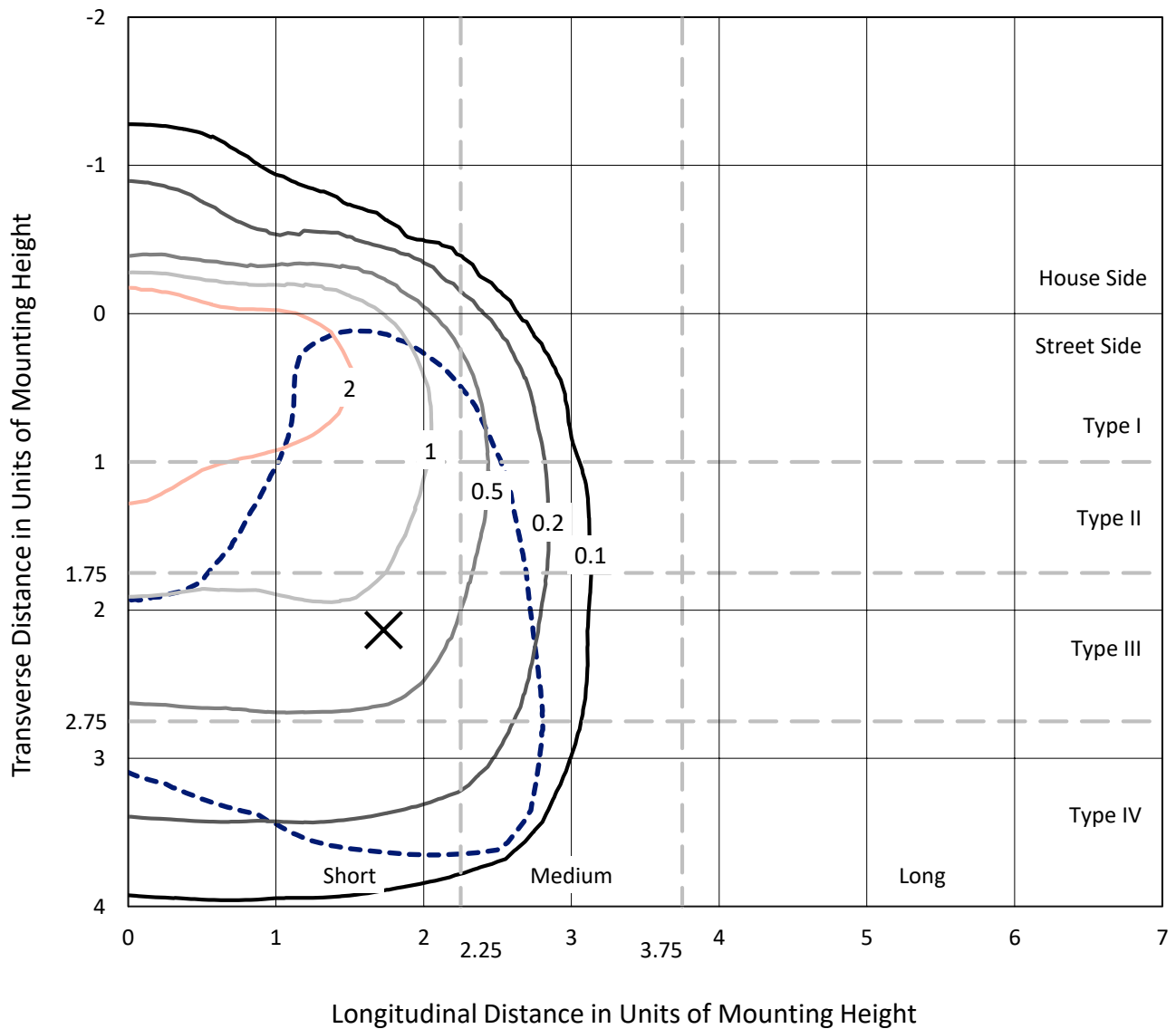


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### Iso-Footcandle Lines of Horizontal Illumination

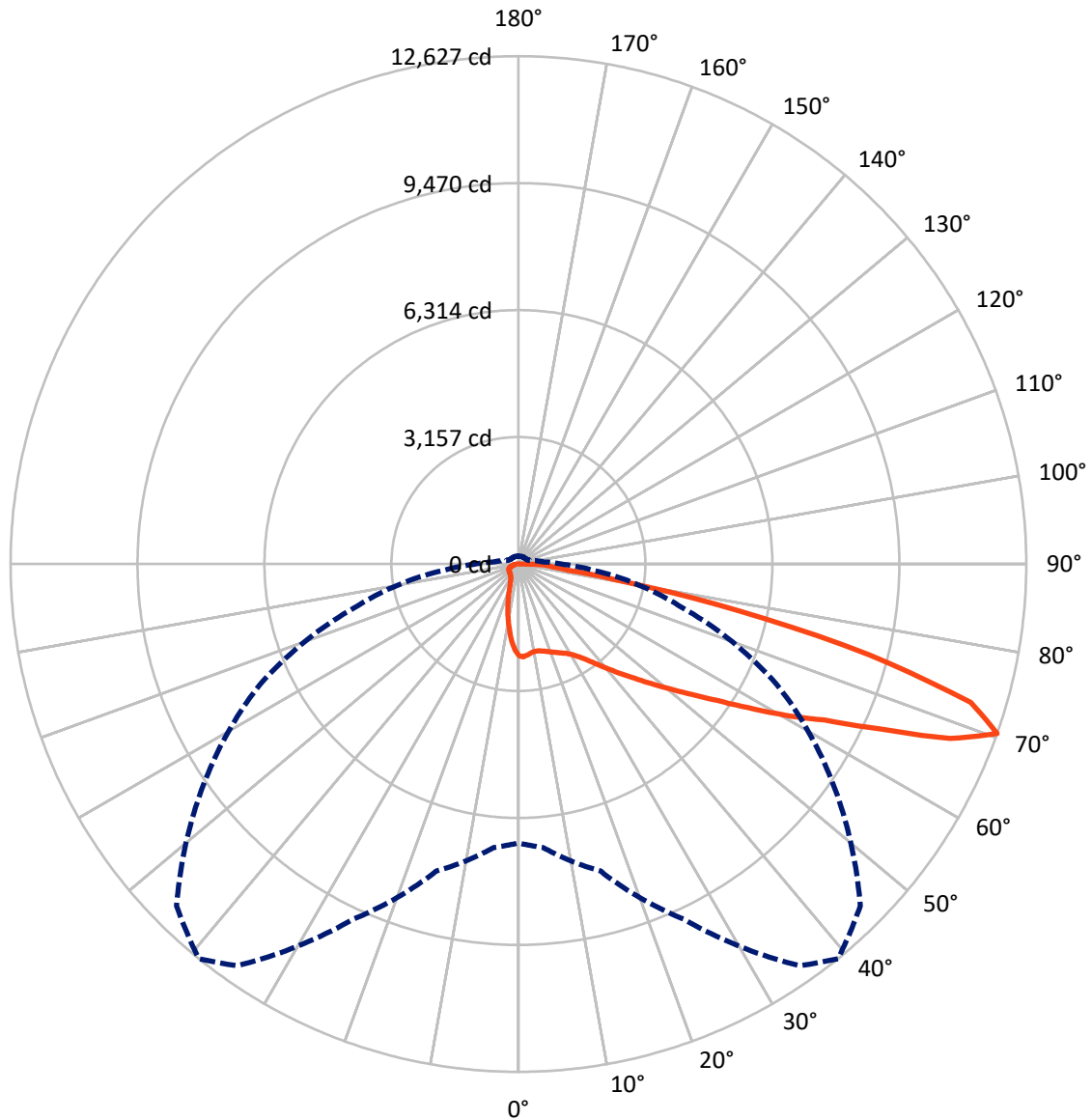
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1709.8	0.0	1709.8
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	13323.2	0.0	13323.2
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	15033.0	0.0	15033.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.9	1.3
10°-20°	489.6	3.3
20°-30°	762.3	5.1
30°-40°	1187.5	7.9
40°-50°	1993.6	13.3
50°-60°	3167.0	21.1
60°-70°	4224.4	28.1
70°-80°	2551.0	17.0
80°-90°	461.7	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°	15033.0	100.0
0°-180°	15033.0	100.0

**Coefficient of Utilization**



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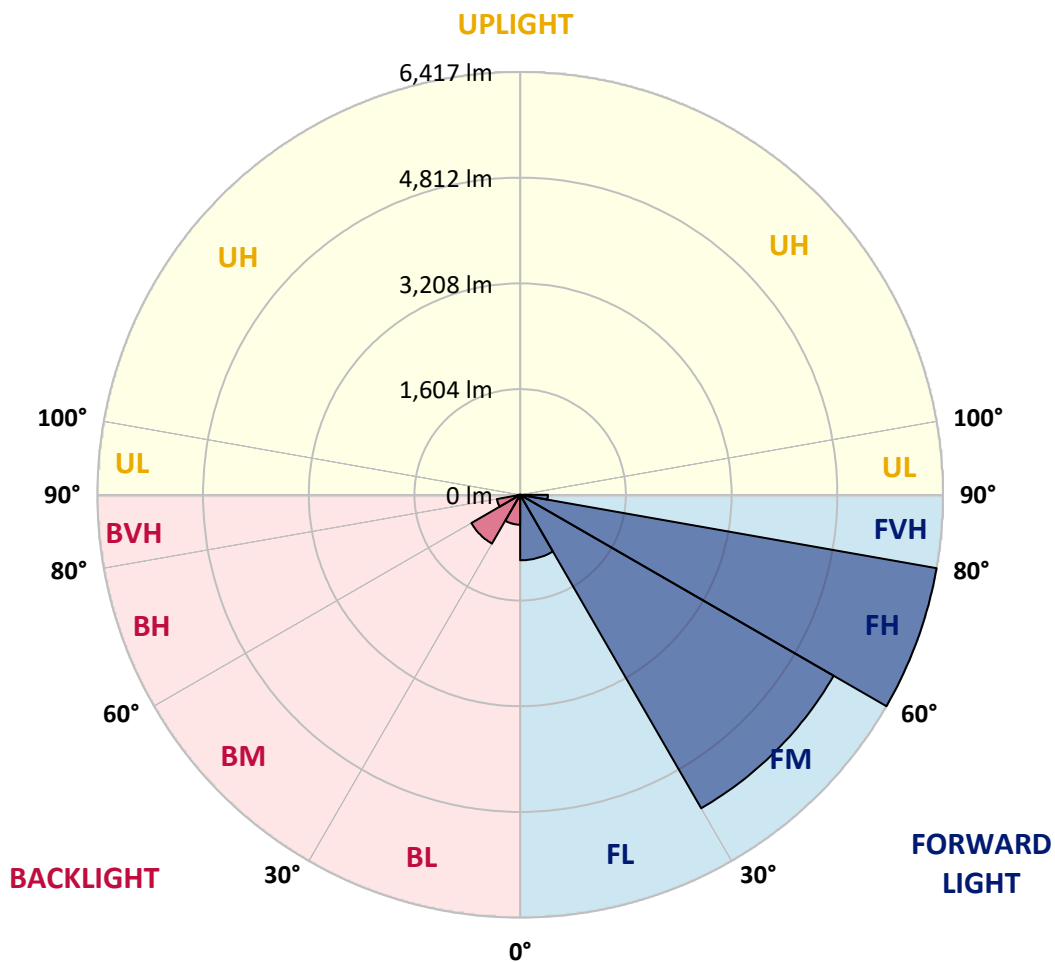
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	994.1	6.6			
FM	(30°-60°)	5492.5	36.5			
FH	(60°-80°)	6416.5	42.7			G3/7500
FVH	(80°-90°)	420.1	2.8			G3/500
BL	(0°-30°)	453.6	3.0	B1/500		
BM	(30°-60°)	855.6	5.7	B1/1000		
BH	(60°-80°)	358.9	2.4	B1/500		G1/500
BVH	(80°-90°)	41.6	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°	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2
2.5°	2326.6	2325.8	2319.7	2315.1	2311.3	2309.8	2312.8	2301.4	2291.4	2279.2	2266.2
5°	2309.0	2308.2	2298.3	2289.1	2279.9	2276.9	2276.1	2255.5	2243.3	2224.9	2200.5
7.5°	2289.9	2286.1	2273.1	2257.8	2241.7	2234.1	2226.4	2199.7	2185.9	2167.6	2139.3
10°	2270.0	2265.4	2253.2	2237.9	2222.6	2211.2	2198.2	2172.2	2157.7	2143.9	2111.0
12.5°	2249.4	2245.6	2242.5	2235.6	2224.9	2215.0	2205.0	2182.9	2167.6	2151.5	2113.3
15°	2246.3	2244.8	2251.7	2256.3	2250.1	2244.0	2233.3	2214.2	2198.2	2182.1	2132.4
17.5°	2270.8	2270.0	2287.6	2299.8	2296.8	2286.1	2271.5	2250.1	2237.1	2223.4	2161.5
20°	2324.3	2328.1	2349.5	2365.6	2350.3	2335.0	2311.3	2281.5	2274.6	2268.5	2191.3
22.5°	2425.2	2429.0	2444.3	2450.4	2410.6	2388.5	2355.6	2317.4	2312.8	2317.4	2227.2
25°	2582.6	2578.8	2576.5	2553.6	2481.0	2446.6	2404.5	2364.8	2367.1	2387.7	2277.7
27.5°	2791.3	2770.6	2738.5	2669.7	2554.3	2516.1	2464.9	2428.2	2442.7	2482.5	2353.3
30°	3007.6	2984.6	2910.5	2798.2	2650.6	2608.6	2551.3	2510.0	2548.2	2610.9	2454.2
32.5°	3207.8	3204.8	3096.2	2951.8	2783.6	2746.9	2689.6	2643.0	2704.9	2800.4	2605.5
35°	3426.4	3433.3	3303.4	3129.9	2963.2	2925.0	2883.8	2848.6	2931.1	3062.6	2824.9
37.5°	3660.3	3674.1	3520.4	3324.8	3168.1	3152.0	3127.6	3112.3	3239.9	3421.8	3131.4
40°	3972.9	3959.1	3745.9	3544.9	3419.5	3418.8	3411.1	3429.5	3642.0	3891.1	3525.0
42.5°	4307.7	4267.2	3985.1	3781.1	3695.5	3721.4	3736.7	3811.6	4125.8	4461.3	4005.0
45°	4668.4	4577.5	4233.5	4031.0	4001.9	4057.0	4109.0	4271.8	4695.2	5110.2	4530.9
47.5°	4956.6	4868.7	4490.3	4293.2	4356.6	4439.9	4540.0	4797.6	5332.6	5780.5	5049.8
50°	5183.6	5126.3	4749.4	4598.9	4747.2	4875.6	5039.1	5393.0	5996.0	6433.2	5530.6
52.5°	5403.7	5360.9	5010.8	4912.2	5205.7	5383.1	5605.5	6032.0	6676.3	7075.3	5934.9
55°	5602.4	5571.9	5292.1	5302.8	5745.4	5976.2	6255.9	6759.6	7417.7	7647.7	6277.3
57.5°	5826.4	5787.4	5613.1	5792.7	6438.6	6738.2	7102.0	7577.4	8113.2	8156.8	6537.9
60°	6051.8	6018.2	5969.3	6358.3	7319.1	7634.0	7978.7	8370.0	8818.7	8551.9	6522.7
62.5°	6247.5	6251.3	6337.7	6952.2	8181.2	8545.8	8966.2	9352.9	9456.9	8620.7	6040.4
65°	6579.2	6639.6	6897.2	7792.9	9395.0	9882.6	10398.5	10336.6	9633.4	7977.9	5006.3
67.5°	6973.6	7079.8	7601.9	8913.4	10928.9	11576.3	11775.8	10559.0	8926.4	6485.2	3568.6
70°	6933.9	7079.8	7906.1	9748.8	12193.1	12627.2	12021.9	9556.2	7088.3	4236.6	1895.5
72.5°	6157.3	6366.0	7286.2	9365.9	11794.9	11756.7	10436.7	7124.2	4211.4	1701.4	740.6
75°	4692.9	4903.8	5695.7	7399.3	9322.3	9001.3	7405.4	3935.5	1598.2	675.7	467.0
77.5°	2699.6	2863.1	3474.6	4537.7	5914.3	5584.8	4121.9	1750.3	778.1	470.8	364.6
80°	1507.2	1598.2	1969.6	2302.1	2898.3	2656.8	1844.3	1087.6	580.9	341.6	281.3
82.5°	1191.6	1272.6	1592.8	1452.2	1323.8	1221.4	1059.3	968.4	463.9	215.5	168.1
85°	1041.0	1118.2	1348.3	1143.4	904.2	829.3	860.6	953.1	360.8	129.9	143.7
87.5°	964.6	1067.7	1201.5	881.3	703.9	623.7	794.1	1044.8	116.2	81.0	58.1
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°	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2
2.5°	2254.7	2242.5	2222.6	2205.0	2177.5	2163.0	2147.0	2135.5	2126.3	2118.7	2130.9
5°	2185.2	2162.2	2120.2	2075.1	2021.6	1979.6	1944.4	1911.5	1888.6	1873.3	1884.0
7.5°	2119.4	2082.0	2016.3	1934.5	1842.8	1764.8	1700.6	1644.0	1605.1	1579.8	1589.8
10°	2082.0	2035.4	1933.7	1805.3	1670.0	1548.5	1447.6	1360.5	1300.1	1265.7	1271.1
12.5°	2072.8	2012.4	1871.8	1695.2	1510.3	1341.4	1199.2	1078.4	993.6	949.3	950.8
15°	2079.7	2002.5	1813.7	1589.8	1355.9	1142.6	965.3	818.6	720.0	669.5	668.8
17.5°	2091.2	1994.9	1752.6	1475.9	1199.2	951.6	753.6	609.9	522.8	482.3	479.2
20°	2103.4	1982.6	1683.8	1352.8	1036.4	774.3	590.1	477.7	422.7	400.5	399.0
22.5°	2121.0	1971.9	1612.7	1222.9	876.7	630.6	485.3	409.7	380.6	369.2	367.6
25°	2149.3	1966.6	1537.0	1087.6	733.0	527.4	422.7	376.0	359.2	351.6	350.8
27.5°	2196.6	1974.2	1466.0	956.2	616.0	457.8	387.5	359.2	347.0	340.1	339.4
30°	2257.8	1997.9	1391.1	831.6	525.1	410.4	366.1	347.8	337.8	330.9	330.9
32.5°	2359.4	2037.7	1312.3	723.8	460.1	377.6	350.1	337.8	329.4	324.1	323.3
35°	2509.2	2112.6	1239.0	634.4	413.5	353.9	336.3	327.1	321.0	318.0	318.0
37.5°	2727.1	2231.0	1174.0	570.2	385.2	337.8	323.3	316.4	312.6	312.6	312.6
40°	3019.8	2394.6	1121.2	527.4	369.2	326.4	313.4	308.0	305.7	306.5	306.5
42.5°	3381.3	2607.1	1086.1	497.6	361.5	319.5	306.5	301.9	299.6	298.8	299.6
45°	3793.3	2848.6	1082.3	475.4	353.9	314.9	301.9	297.3	292.7	289.7	289.7
47.5°	4193.8	3093.9	1113.6	467.8	345.5	309.5	298.1	293.5	286.6	279.7	279.7
50°	4547.7	3302.6	1155.6	470.8	342.4	301.9	292.0	289.7	279.0	271.3	270.6
52.5°	4828.9	3463.1	1190.0	480.0	345.5	296.6	284.3	285.1	273.6	265.2	264.5
55°	5054.4	3568.6	1180.9	489.2	352.3	293.5	277.4	279.0	269.8	261.4	261.4
57.5°	5153.0	3529.6	1079.2	481.5	357.7	294.3	272.1	278.2	270.6	262.9	262.9
60°	4941.3	3183.4	888.9	447.9	350.8	292.0	269.8	281.3	280.5	272.9	272.1
62.5°	4300.8	2563.5	689.4	398.2	327.1	280.5	263.7	280.5	288.9	286.6	285.9
65°	3314.8	1825.9	526.6	344.7	295.0	261.4	247.6	262.9	274.4	277.4	276.7
67.5°	2151.5	1119.0	405.9	294.3	259.1	239.2	227.0	233.9	236.2	236.2	234.6
70°	1057.8	602.3	323.3	247.6	222.4	215.5	208.7	204.8	201.0	198.0	198.0
72.5°	522.0	393.6	266.0	209.4	191.8	188.8	187.3	182.7	179.6	175.8	174.3
75°	386.0	320.2	226.2	176.6	165.1	162.0	165.1	161.3	160.5	157.4	155.9
77.5°	317.2	272.9	194.9	151.3	141.4	136.0	140.6	141.4	142.2	137.6	136.0
80°	257.6	230.8	162.8	125.3	116.2	112.4	115.4	121.5	123.1	116.2	113.1
82.5°	185.7	188.8	131.5	97.8	90.2	87.1	93.2	100.9	102.4	92.5	90.2
85°	155.9	157.4	100.9	69.6	61.9	57.3	67.3	74.9	80.3	70.3	68.0
87.5°	65.0	92.5	58.1	39.0	34.4	29.8	35.9	39.7	48.2	44.3	43.6
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)