

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: P191352

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15881.3 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

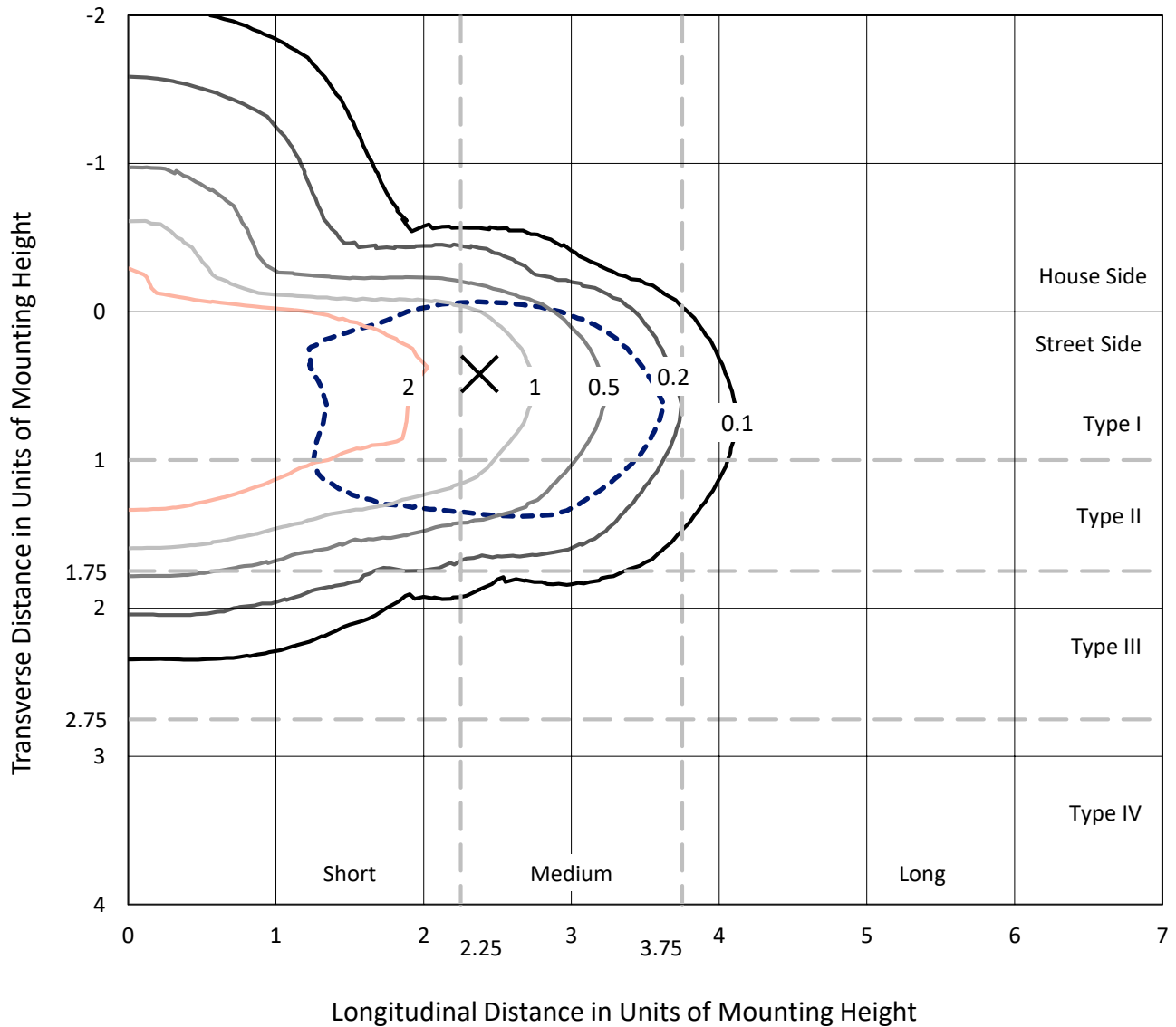
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

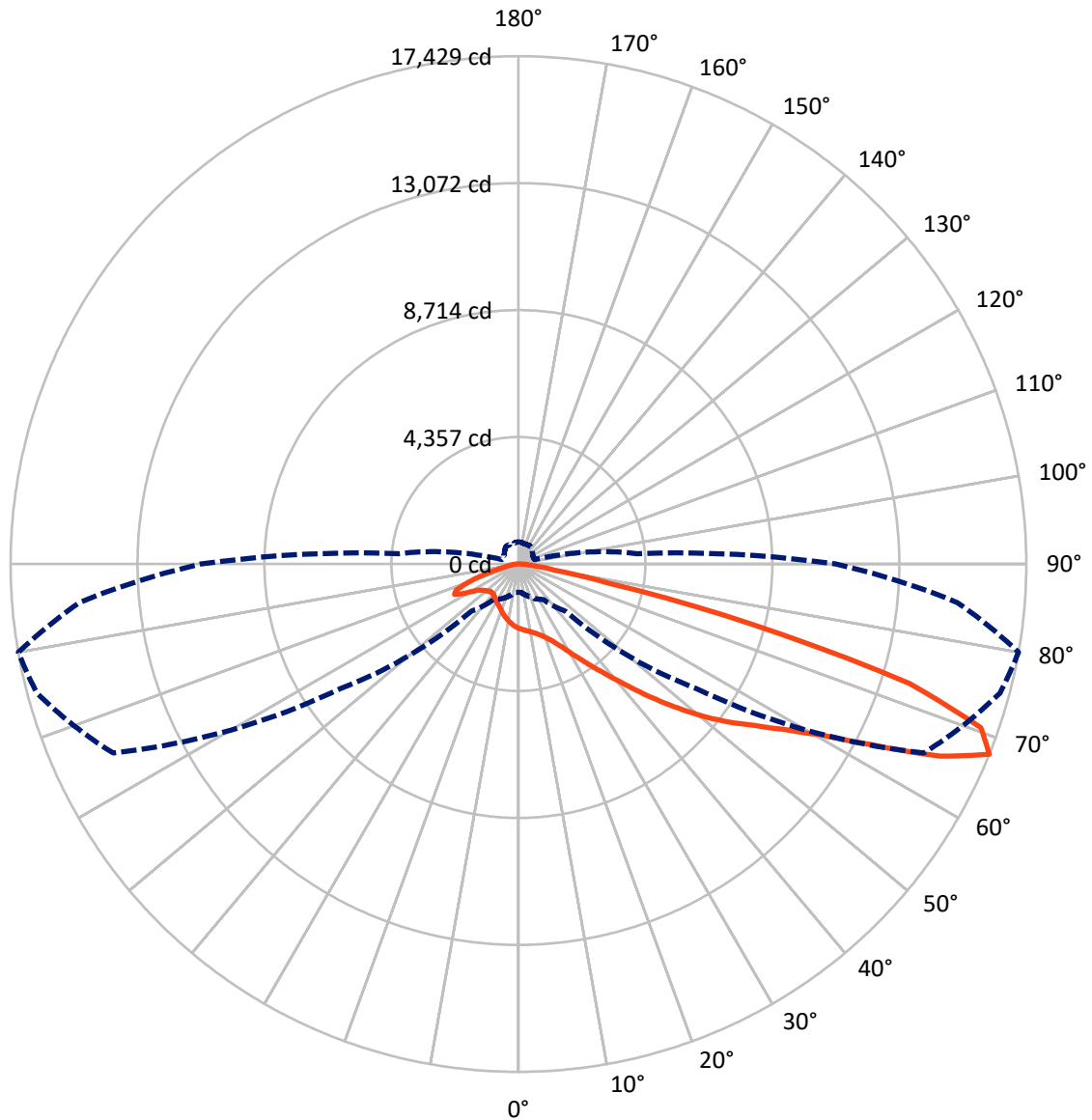
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2924.7	0.0	2924.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	12956.6	0.0	12956.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	15881.3	0.0	15881.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.5	1.3
10°-20°	586.3	3.7
20°-30°	970.5	6.1
30°-40°	1587.4	10.0
40°-50°	2563.1	16.1
50°-60°	3700.3	23.3
60°-70°	4083.5	25.7
70°-80°	1882.2	11.9
80°-90°	304.4	1.9
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°	15881.3	100.0
0°-180°	15881.3	100.0



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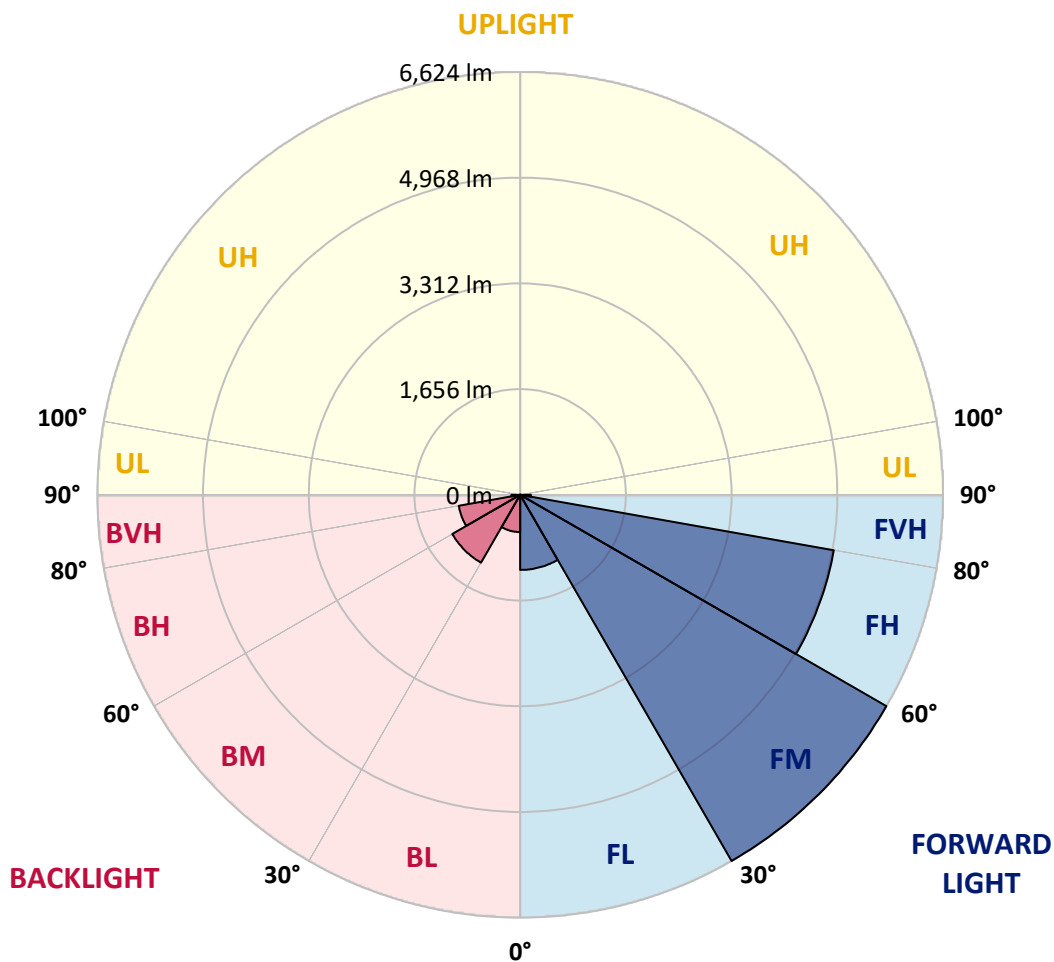
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.8	7.4			
FM (30°-60°)	6623.7	41.7			
FH (60°-80°)	4988.7	31.4			G2/5000
FVH (80°-90°)	167.4	1.1			G2/225
BL (0°-30°)	583.5	3.7	B2/1000		
BM (30°-60°)	1227.1	7.7	B2/2500		
BH (60°-80°)	977.0	6.2	B2/1000		G2/1000
BVH (80°-90°)	137.1	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4
2.5°	2413.6	2399.5	2401.9	2397.9	2386.2	2365.9	2344.0	2304.1	2262.7	2240.8	2223.6
5°	2615.3	2611.4	2605.9	2593.4	2563.7	2521.5	2469.1	2398.7	2322.9	2283.0	2244.7
7.5°	2766.2	2763.8	2756.8	2749.0	2720.0	2669.2	2590.2	2490.2	2380.0	2325.2	2265.8
10°	2778.6	2782.6	2788.1	2809.2	2813.1	2785.7	2705.2	2584.0	2439.3	2368.9	2293.1
12.5°	2672.4	2680.9	2702.0	2756.0	2813.1	2846.7	2805.2	2682.5	2509.0	2423.8	2327.5
15°	2531.6	2536.3	2562.1	2636.3	2738.8	2842.8	2881.9	2791.2	2598.9	2494.1	2379.2
17.5°	2471.4	2473.8	2491.7	2541.0	2636.3	2785.0	2924.9	2909.3	2709.1	2581.6	2442.5
20°	2441.0	2446.4	2472.2	2520.7	2580.9	2710.7	2931.2	3036.7	2840.4	2691.1	2522.3
22.5°	2527.7	2525.4	2534.8	2559.0	2609.9	2688.0	2926.5	3168.1	3007.8	2831.8	2626.2
25°	2730.3	2738.8	2722.4	2695.1	2711.4	2766.2	2951.5	3310.4	3217.3	3012.5	2762.3
27.5°	3018.7	3010.1	2985.9	2921.8	2888.1	2911.6	3034.4	3463.6	3477.6	3250.1	2942.1
30°	3306.5	3299.4	3275.9	3197.7	3129.0	3109.4	3195.4	3639.5	3788.1	3535.5	3162.6
32.5°	3605.1	3597.3	3575.4	3497.2	3414.3	3369.0	3424.5	3842.8	4154.0	3876.4	3422.2
35°	3973.3	3958.5	3912.4	3803.7	3722.4	3687.2	3713.0	4098.5	4576.2	4279.8	3737.2
37.5°	4319.7	4342.4	4295.5	4145.4	4039.8	4027.3	4056.2	4410.5	5031.2	4730.9	4099.3
40°	4667.6	4671.5	4629.4	4506.6	4397.9	4377.6	4450.2	4788.8	5568.3	5270.4	4539.4
42.5°	5027.3	5035.1	4964.0	4850.6	4770.8	4774.7	4857.6	5232.1	6184.5	5906.1	5046.0
45°	5453.4	5465.1	5387.0	5238.4	5165.7	5311.9	5277.5	5729.3	6859.9	6628.5	5627.8
47.5°	5899.1	5917.1	5857.6	5718.4	5627.8	5828.7	5697.3	6280.6	7587.0	7403.3	6266.5
50°	6142.2	6168.0	6225.9	6215.7	6196.1	6162.6	6165.6	6871.7	8336.8	8210.2	6923.2
52.5°	6011.7	6010.9	6222.0	6478.3	6752.1	6772.3	6736.4	7494.8	9037.4	8999.1	7541.7
55°	5414.3	5455.0	5774.8	6271.2	7018.7	7485.4	7591.7	8208.7	9725.4	9770.0	8169.5
57.5°	4419.8	4453.4	4885.0	5576.9	6659.0	7909.1	8808.3	9246.1	10494.8	10702.7	9005.3
60°	2997.7	3038.3	3495.6	4326.8	5691.1	7673.1	9966.2	11097.6	11415.7	11888.8	10178.1
62.5°	1761.5	1798.2	2171.2	2729.4	4007.0	6576.1	10474.4	13731.6	12878.6	13678.4	11967.0
65°	1212.6	1237.7	1419.0	1698.9	2302.6	4429.2	9844.3	15550.2	15129.5	15895.7	14041.2
67.5°	975.8	972.6	1116.4	1307.2	1482.4	2283.7	7444.0	15344.6	17109.2	17428.9	15117.8
70°	803.7	800.7	898.4	1056.3	1184.5	1286.2	4054.7	12949.0	16705.7	16835.5	14126.4
72.5°	672.4	675.6	738.1	855.4	971.8	968.7	1781.9	9109.3	13142.1	14039.7	11260.9
75°	567.6	569.2	610.6	693.5	788.9	780.3	966.4	4935.0	7639.4	8264.1	6242.3
77.5°	483.1	484.8	511.4	557.5	625.4	622.4	705.2	2132.1	3186.8	3147.7	2135.2
80°	430.8	430.8	443.3	451.9	489.5	475.4	523.0	1024.2	1347.1	1243.9	852.2
82.5°	337.8	339.3	415.9	412.9	385.4	367.4	367.4	603.5	713.8	659.9	498.8
85°	190.0	189.2	268.2	323.7	339.3	258.8	256.5	337.8	388.6	342.5	241.6
87.5°	81.3	82.9	124.3	143.8	192.3	161.0	158.8	174.3	197.8	171.2	111.8
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°	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4
2.5°	2207.1	2186.9	2142.3	2086.7	2036.7	2003.9	1974.2	1931.1	1933.5	1903.8	1881.9
5°	2205.6	2163.3	2060.1	1937.5	1819.3	1734.1	1670.1	1612.2	1598.1	1570.7	1554.3
7.5°	2207.1	2138.4	1964.8	1768.6	1622.3	1514.5	1459.8	1429.3	1422.2	1412.8	1413.6
10°	2212.6	2115.7	1860.0	1610.6	1457.4	1386.2	1372.9	1382.3	1393.3	1396.4	1397.1
12.5°	2225.1	2095.3	1745.1	1469.9	1354.2	1332.3	1354.9	1387.0	1408.1	1418.3	1417.5
15°	2253.3	2079.8	1634.9	1359.6	1297.1	1308.8	1351.0	1396.4	1426.9	1440.9	1441.7
17.5°	2283.7	2057.1	1521.4	1275.2	1254.9	1284.6	1337.0	1390.1	1427.6	1443.3	1446.5
20°	2323.6	2028.9	1402.7	1211.9	1215.0	1248.6	1297.8	1351.0	1392.4	1405.7	1412.0
22.5°	2376.0	1998.4	1298.6	1160.2	1169.6	1195.4	1233.8	1279.9	1315.8	1322.1	1327.6
25°	2446.4	1965.6	1215.8	1113.4	1117.3	1132.1	1157.9	1185.3	1210.3	1203.3	1208.7
27.5°	2541.0	1937.5	1154.0	1070.3	1063.4	1066.4	1079.7	1088.3	1101.6	1082.1	1084.4
30°	2652.0	1906.9	1106.3	1032.8	1013.2	1007.8	1010.9	1015.6	1025.8	999.2	995.3
32.5°	2781.0	1870.2	1061.7	999.9	972.6	961.7	963.2	975.8	1014.9	998.4	989.8
35°	2931.2	1828.7	1014.9	964.0	945.2	929.7	928.0	967.1	1083.6	1073.5	1065.7
37.5°	3107.1	1787.3	967.9	923.3	925.0	907.8	902.2	946.8	1096.9	1057.0	1051.6
40°	3330.6	1765.4	928.0	880.4	899.9	897.5	886.6	909.3	1009.3	936.6	927.3
42.5°	3607.4	1768.6	898.4	834.2	870.2	895.2	878.0	878.8	914.7	860.0	851.4
45°	3949.1	1805.3	877.3	797.5	836.6	892.8	874.9	862.3	865.5	836.6	831.9
47.5°	4347.8	1881.1	862.3	767.0	804.6	884.2	874.1	857.6	850.7	835.0	831.1
50°	4791.2	1991.4	851.4	738.1	775.6	870.2	874.9	853.0	845.2	838.9	836.6
52.5°	5226.7	2117.2	835.0	713.0	752.9	853.0	877.3	848.3	839.7	835.0	832.7
55°	5712.2	2274.4	810.0	691.9	734.2	831.1	877.3	841.3	831.9	832.7	831.9
57.5°	6368.2	2528.5	780.3	673.9	711.5	804.6	862.3	833.5	821.7	822.6	823.3
60°	7393.2	2976.5	744.3	656.0	683.3	773.2	842.1	816.2	804.6	807.6	808.4
62.5°	8900.6	3634.0	697.4	629.4	653.7	739.6	813.9	794.3	782.7	790.4	790.4
65°	10467.3	4214.1	639.5	595.8	622.4	702.9	778.7	767.0	755.2	773.2	772.4
67.5°	10888.8	4084.3	581.6	559.0	591.1	662.3	736.5	730.3	723.9	755.2	753.7
70°	9673.0	3279.1	528.6	521.5	556.7	618.5	691.1	691.1	687.2	710.7	705.2
72.5°	7369.7	2325.2	477.7	481.6	517.6	570.7	641.9	647.3	641.1	652.8	648.1
75°	3945.2	1330.8	426.9	437.8	469.1	522.3	587.2	592.6	588.7	588.0	590.3
77.5°	1311.1	650.5	373.7	391.0	418.3	472.2	530.1	538.7	529.3	527.7	526.9
80°	584.0	408.9	315.1	337.8	362.0	415.1	469.8	476.9	466.8	480.8	462.9
82.5°	375.3	268.9	252.6	277.5	301.1	358.1	409.7	411.2	401.9	466.8	397.9
85°	182.2	166.5	190.0	212.7	233.0	281.5	339.3	340.1	316.6	288.5	278.3
87.5°	90.7	97.0	126.6	147.0	157.1	193.1	247.0	242.3	232.2	211.1	194.7
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)