

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: P269258

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269258  
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-T2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13488.5 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

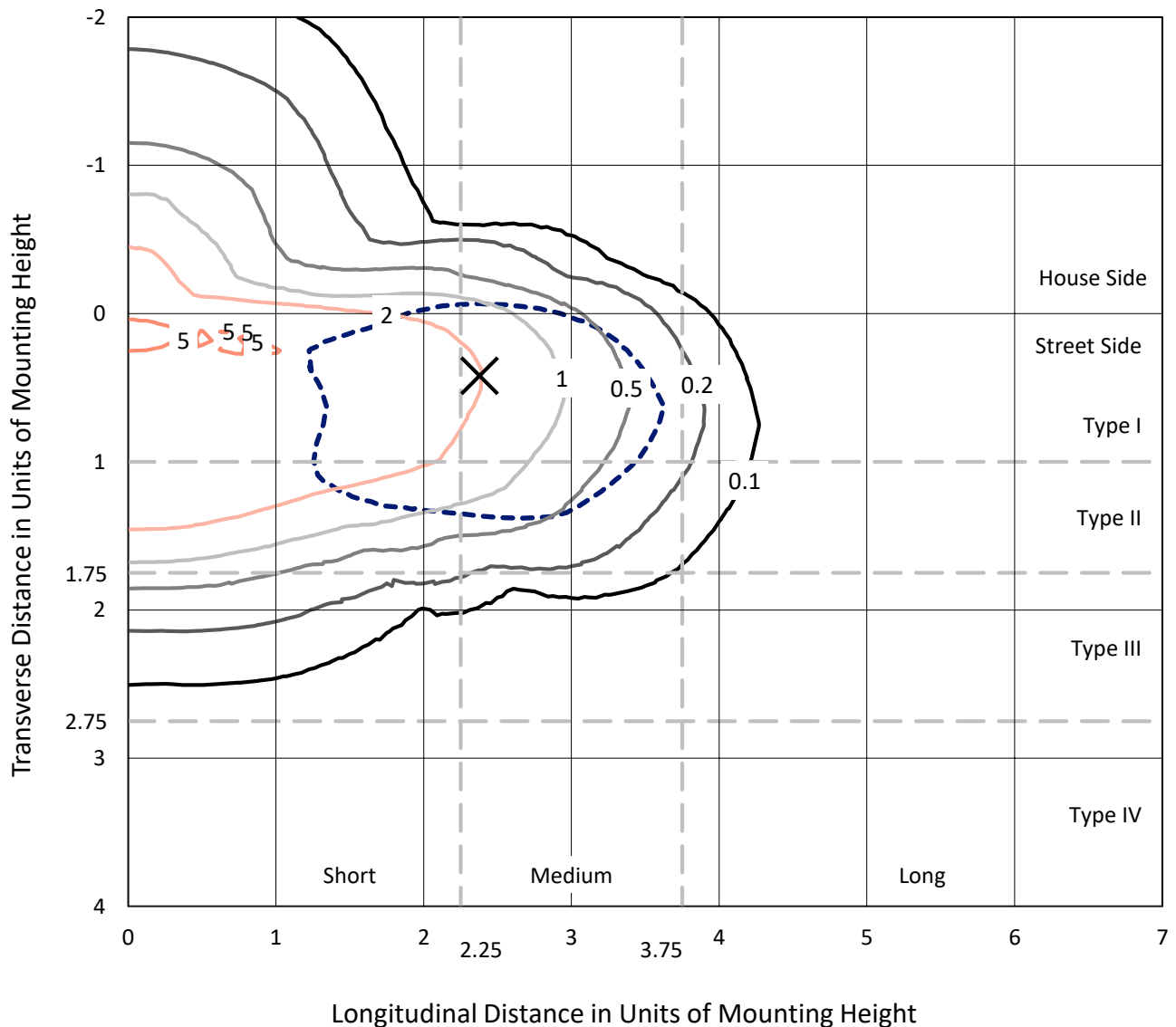


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### Iso-Footcandle Lines of Horizontal Illumination

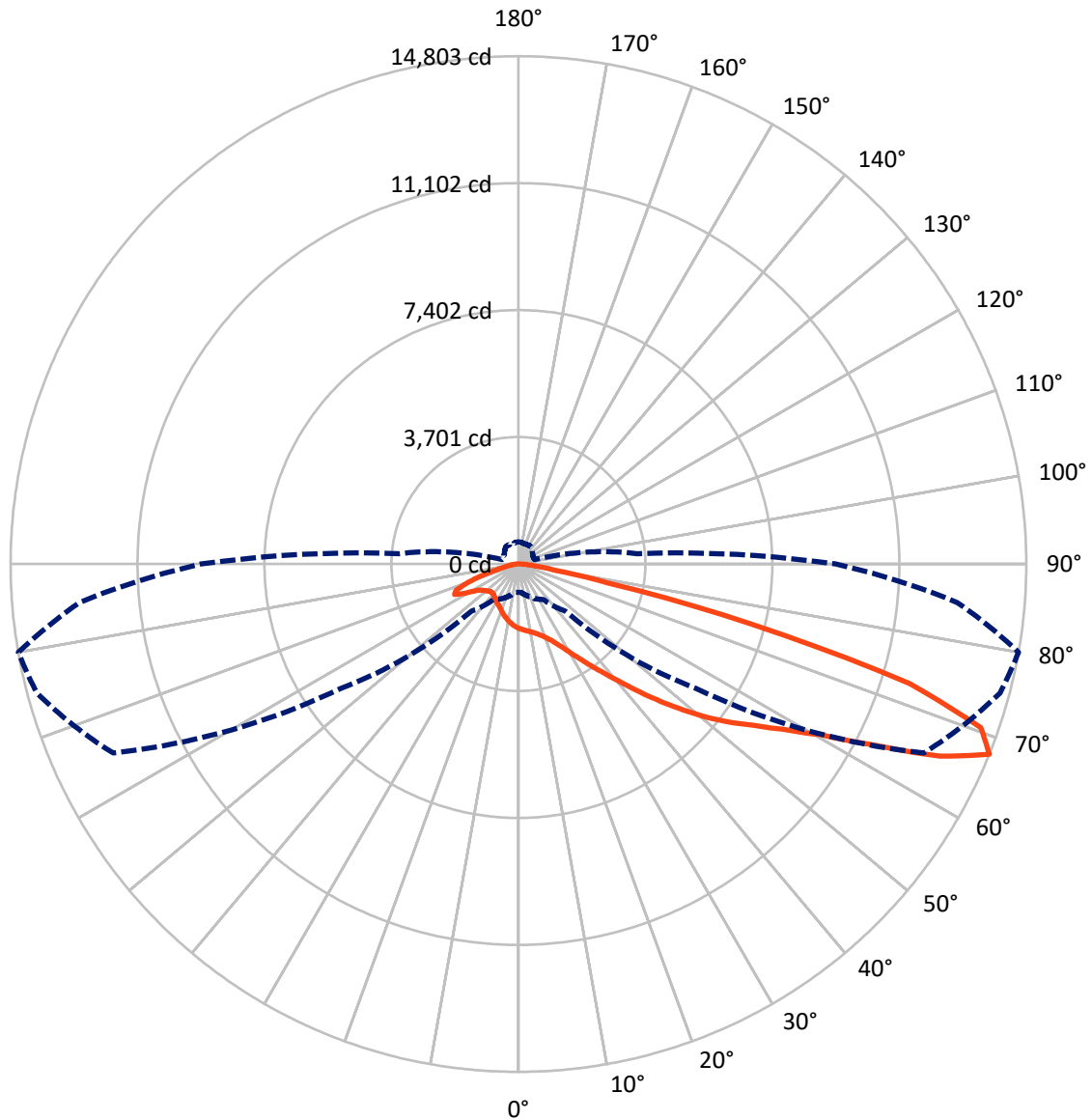
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	2484.1	0.0	2484.1
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	11004.4	0.0	11004.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	13488.5	0.0	13488.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	1.3
10°-20°	498.0	3.7
20°-30°	824.2	6.1
30°-40°	1348.3	10.0
40°-50°	2176.9	16.1
50°-60°	3142.8	23.3
60°-70°	3468.3	25.7
70°-80°	1598.7	11.9
80°-90°	258.6	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°	13488.5	100.0
0°-180°	13488.5	100.0



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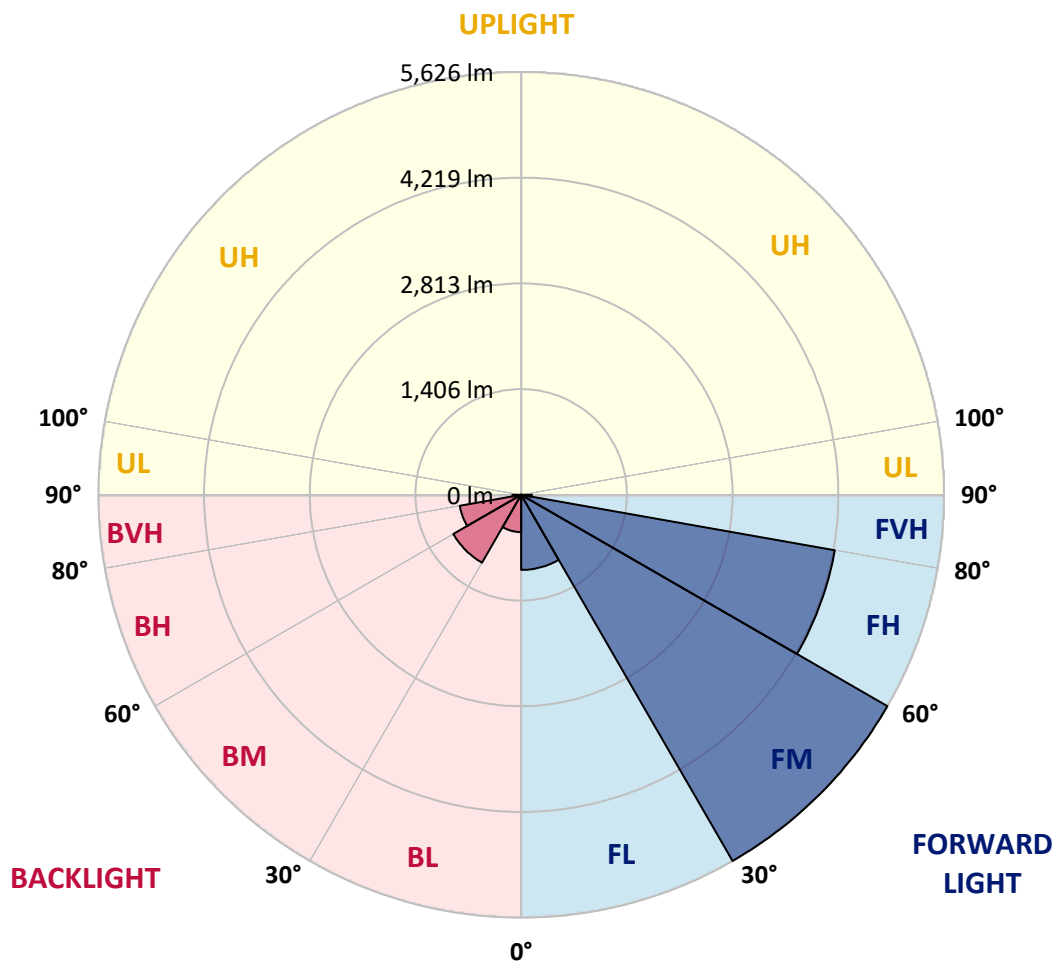
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.5	7.4			
FM (30°-60°)	5625.7	41.7			
FH (60°-80°)	4237.1	31.4			G2/5000
FVH (80°-90°)	142.2	1.1			G2/225
BL (0°-30°)	495.6	3.7	B1/500		
BM (30°-60°)	1042.2	7.7	B2/2500		
BH (60°-80°)	829.8	6.2	B2/1000		G2/1000
BVH (80°-90°)	116.4	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°	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	2049.9	2038.0	2040.0	2036.6	2026.7	2009.4	1990.9	1957.0	1921.7	1903.1	1888.5
5°	2221.2	2217.9	2213.2	2202.6	2177.4	2141.6	2097.1	2037.3	1972.9	1939.0	1906.6
7.5°	2349.3	2347.5	2341.4	2334.8	2310.3	2267.1	2199.9	2115.0	2021.4	1974.8	1924.3
10°	2360.0	2363.4	2368.0	2385.9	2389.2	2366.0	2297.7	2194.6	2071.9	2012.1	1947.6
12.5°	2269.7	2277.1	2295.0	2340.8	2389.2	2417.8	2382.7	2278.3	2130.9	2058.6	1976.9
15°	2150.3	2154.1	2176.1	2239.1	2326.3	2414.5	2447.7	2370.6	2207.2	2118.4	2020.6
17.5°	2099.1	2101.0	2116.3	2158.2	2239.1	2365.3	2484.3	2470.9	2300.9	2192.8	2074.5
20°	2073.2	2077.8	2099.7	2140.9	2192.0	2302.3	2489.6	2579.2	2412.5	2285.6	2142.2
22.5°	2146.9	2144.9	2152.9	2173.4	2216.6	2283.0	2485.5	2690.8	2554.6	2405.2	2230.5
25°	2318.9	2326.3	2312.1	2289.1	2303.0	2349.3	2506.8	2811.5	2732.6	2558.6	2346.1
27.5°	2563.9	2556.5	2536.1	2481.6	2453.0	2472.9	2577.1	2941.7	2953.6	2760.4	2498.8
30°	2808.2	2802.4	2782.4	2715.9	2657.5	2640.8	2714.0	3091.2	3217.3	3002.9	2686.1
32.5°	3062.0	3055.2	3036.7	2970.2	2899.9	2861.5	2908.5	3263.8	3528.2	3292.4	2906.6
35°	3374.8	3362.0	3322.9	3230.7	3161.6	3131.6	3153.6	3480.9	3886.6	3635.0	3174.2
37.5°	3668.9	3688.1	3648.2	3520.7	3431.2	3420.6	3445.1	3745.9	4273.1	4018.2	3481.7
40°	3964.4	3967.8	3931.8	3827.6	3735.2	3718.1	3779.8	4067.3	4729.3	4476.3	3855.4
42.5°	4269.9	4276.6	4216.0	4119.7	4052.1	4055.4	4125.7	4443.8	5252.6	5016.2	4285.8
45°	4631.8	4641.7	4575.2	4449.1	4387.3	4511.6	4482.4	4866.2	5826.3	5629.8	4779.8
47.5°	5010.2	5025.5	4975.1	4856.9	4779.8	4950.5	4838.9	5334.2	6443.9	6287.9	5322.4
50°	5216.7	5238.6	5287.9	5279.2	5262.6	5234.1	5236.7	5836.3	7080.7	6973.2	5880.1
52.5°	5105.8	5105.2	5284.5	5502.3	5734.7	5751.9	5721.5	6365.6	7675.7	7643.1	6405.5
55°	4598.6	4633.1	4904.7	5326.3	5961.2	6357.7	6447.9	6971.8	8260.2	8298.0	6938.7
57.5°	3753.8	3782.5	4149.0	4736.7	5655.6	6717.5	7481.2	7853.1	8913.5	9090.2	7648.4
60°	2545.9	2580.6	2969.0	3674.8	4833.6	6516.9	8464.5	9425.5	9695.8	10097.5	8644.6
62.5°	1496.0	1527.3	1844.1	2318.2	3403.3	5585.3	8896.3	11662.6	10938.2	11617.5	10164.0
65°	1029.9	1051.1	1205.3	1442.9	1955.6	3761.8	8361.1	13207.3	12850.1	13500.7	11925.7
67.5°	828.7	826.1	948.3	1110.2	1259.1	1939.7	6322.5	13032.6	14531.4	14803.0	12840.1
70°	682.6	679.9	763.0	897.1	1006.0	1092.3	3443.7	10997.9	14188.6	14299.0	11998.0
72.5°	571.1	573.7	626.8	726.5	825.5	822.8	1513.4	7736.8	11162.0	11924.3	9564.3
75°	482.1	483.4	518.6	589.0	670.0	662.7	820.8	4191.5	6488.4	7018.9	5301.7
77.5°	410.3	411.8	434.3	473.4	531.3	528.7	599.0	1810.9	2706.7	2673.4	1813.5
80°	365.9	365.9	376.5	383.8	415.6	403.8	444.2	869.9	1144.1	1056.4	723.9
82.5°	286.9	288.1	353.3	350.6	327.4	312.2	312.2	512.7	606.3	560.5	423.7
85°	161.3	160.6	227.8	274.9	288.1	219.7	217.7	286.9	330.0	290.8	205.3
87.5°	69.1	70.3	105.6	122.2	163.3	136.8	134.7	148.1	168.1	145.4	95.0
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°	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	1874.7	1857.3	1819.4	1772.4	1729.9	1702.0	1676.7	1640.1	1642.2	1616.9	1598.4
5°	1873.2	1837.5	1749.8	1645.5	1545.3	1472.9	1418.5	1369.2	1357.2	1334.1	1320.1
7.5°	1874.7	1816.2	1668.7	1502.1	1377.9	1286.3	1239.8	1213.9	1208.0	1200.0	1200.7
10°	1879.3	1796.9	1579.8	1367.9	1237.8	1177.4	1166.1	1174.1	1183.3	1186.0	1186.7
12.5°	1889.9	1779.6	1482.2	1248.5	1150.1	1131.5	1150.8	1177.9	1196.0	1204.5	1203.9
15°	1913.7	1766.3	1388.5	1154.9	1101.6	1111.7	1147.5	1186.0	1212.0	1223.9	1224.5
17.5°	1939.7	1747.2	1292.2	1083.0	1065.7	1091.0	1135.5	1180.7	1212.5	1225.8	1228.5
20°	1973.5	1723.2	1191.3	1029.3	1032.0	1060.4	1102.3	1147.5	1182.7	1193.9	1199.2
22.5°	2018.0	1697.3	1102.9	985.4	993.4	1015.4	1047.9	1087.0	1117.6	1122.9	1127.6
25°	2077.8	1669.4	1032.6	945.6	948.9	961.5	983.5	1006.7	1027.9	1022.0	1026.7
27.5°	2158.2	1645.5	980.1	909.1	903.1	905.9	917.1	924.4	935.7	919.1	921.0
30°	2252.5	1619.6	939.6	877.3	860.5	855.9	858.6	862.6	871.3	848.7	845.3
32.5°	2362.1	1588.5	901.8	849.3	826.1	816.7	818.0	828.7	862.0	848.0	840.6
35°	2489.6	1553.2	862.0	818.7	802.8	789.6	788.3	821.4	920.4	911.7	905.1
37.5°	2639.0	1518.0	822.0	784.2	785.6	770.9	766.3	804.2	931.6	897.8	893.2
40°	2828.9	1499.5	788.3	747.7	764.3	762.3	753.0	772.4	857.3	795.4	787.5
42.5°	3063.8	1502.1	763.0	708.6	739.0	760.3	745.8	746.4	776.9	730.4	723.1
45°	3354.1	1533.2	745.1	677.3	710.5	758.3	743.1	732.5	735.2	710.5	706.5
47.5°	3692.8	1597.6	732.5	651.5	683.3	751.1	742.4	728.4	722.4	709.2	705.9
50°	4069.3	1691.2	723.1	626.8	658.7	739.0	743.1	724.5	717.8	712.5	710.5
52.5°	4439.2	1798.2	709.2	605.5	639.5	724.5	745.1	720.5	713.2	709.2	707.2
55°	4851.6	1931.7	687.9	587.8	623.6	705.9	745.1	714.5	706.5	707.2	706.5
57.5°	5408.6	2147.6	662.7	572.4	604.3	683.3	732.5	707.9	698.0	698.6	699.2
60°	6279.2	2528.0	632.1	557.0	580.3	656.8	715.2	693.2	683.3	685.9	686.7
62.5°	7559.5	3086.4	592.3	534.5	555.2	628.2	691.2	674.6	664.7	671.4	671.4
65°	8890.3	3579.2	543.1	506.0	528.7	597.0	661.4	651.5	641.5	656.8	656.1
67.5°	9248.2	3469.0	494.1	474.8	502.1	562.5	625.5	620.2	614.9	641.5	640.1
70°	8215.5	2785.0	449.0	443.0	472.8	525.2	587.0	587.0	583.7	603.7	599.0
72.5°	6259.3	1974.8	405.8	409.1	439.6	484.7	545.2	549.9	544.6	554.4	550.5
75°	3350.8	1130.2	362.6	371.9	398.4	443.7	498.6	503.3	500.0	499.4	501.3
77.5°	1113.5	552.5	317.5	332.1	355.3	401.2	450.2	457.5	449.5	448.3	447.5
80°	496.0	347.4	267.6	286.9	307.5	352.7	399.0	405.0	396.4	408.4	393.1
82.5°	318.8	228.3	214.4	235.7	255.7	304.2	348.0	349.4	341.4	396.4	338.0
85°	154.7	141.5	161.3	180.6	197.8	239.0	288.1	288.9	269.0	245.1	236.4
87.5°	77.1	82.4	107.5	124.9	133.5	164.0	209.8	205.8	197.2	179.3	165.4
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)