

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: P193892

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193892
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-T2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12668 lumens
Efficiency: N/A
Efficacy: 98.2 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

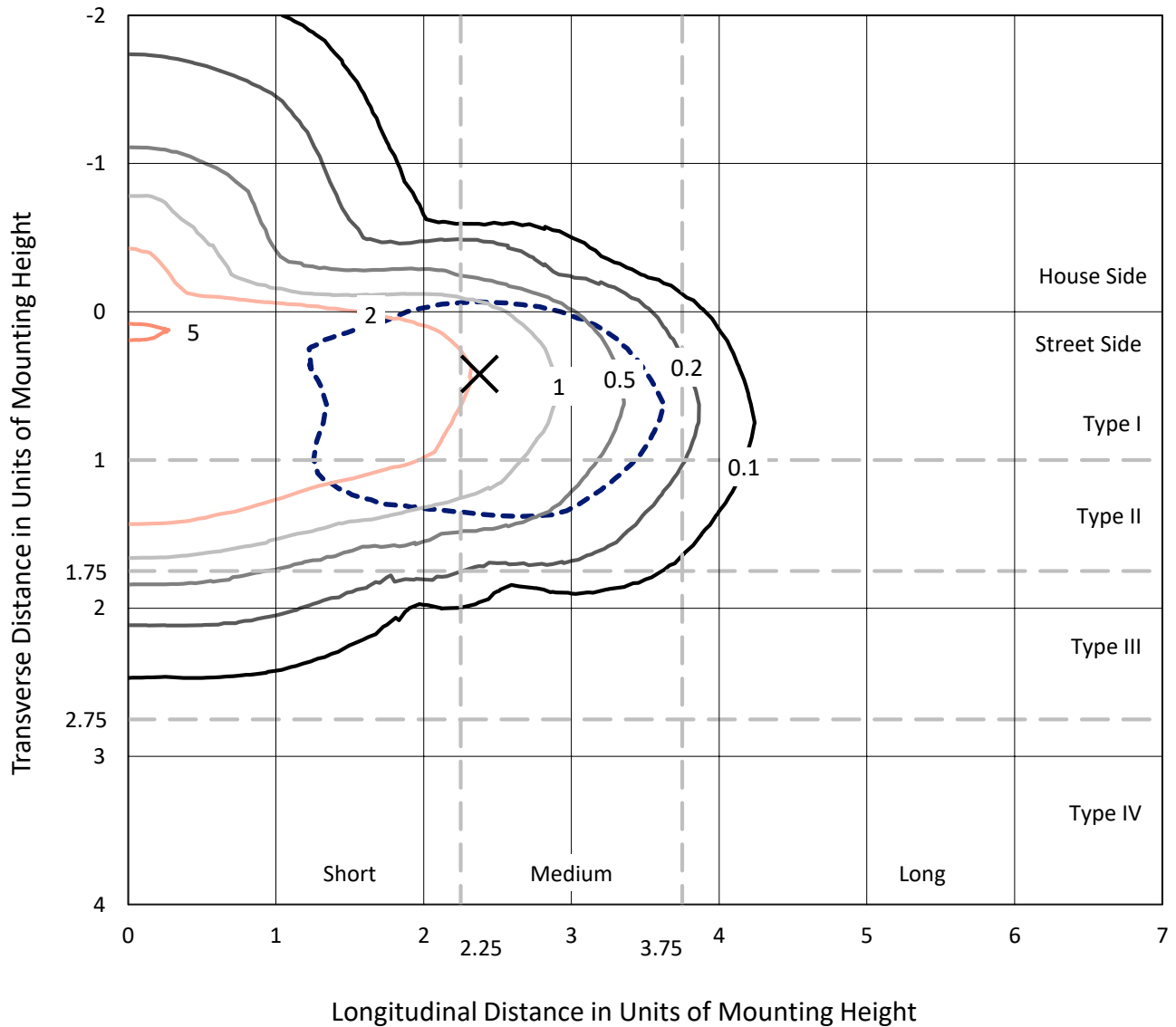


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Iso-Footcandle Lines of Horizontal Illumination

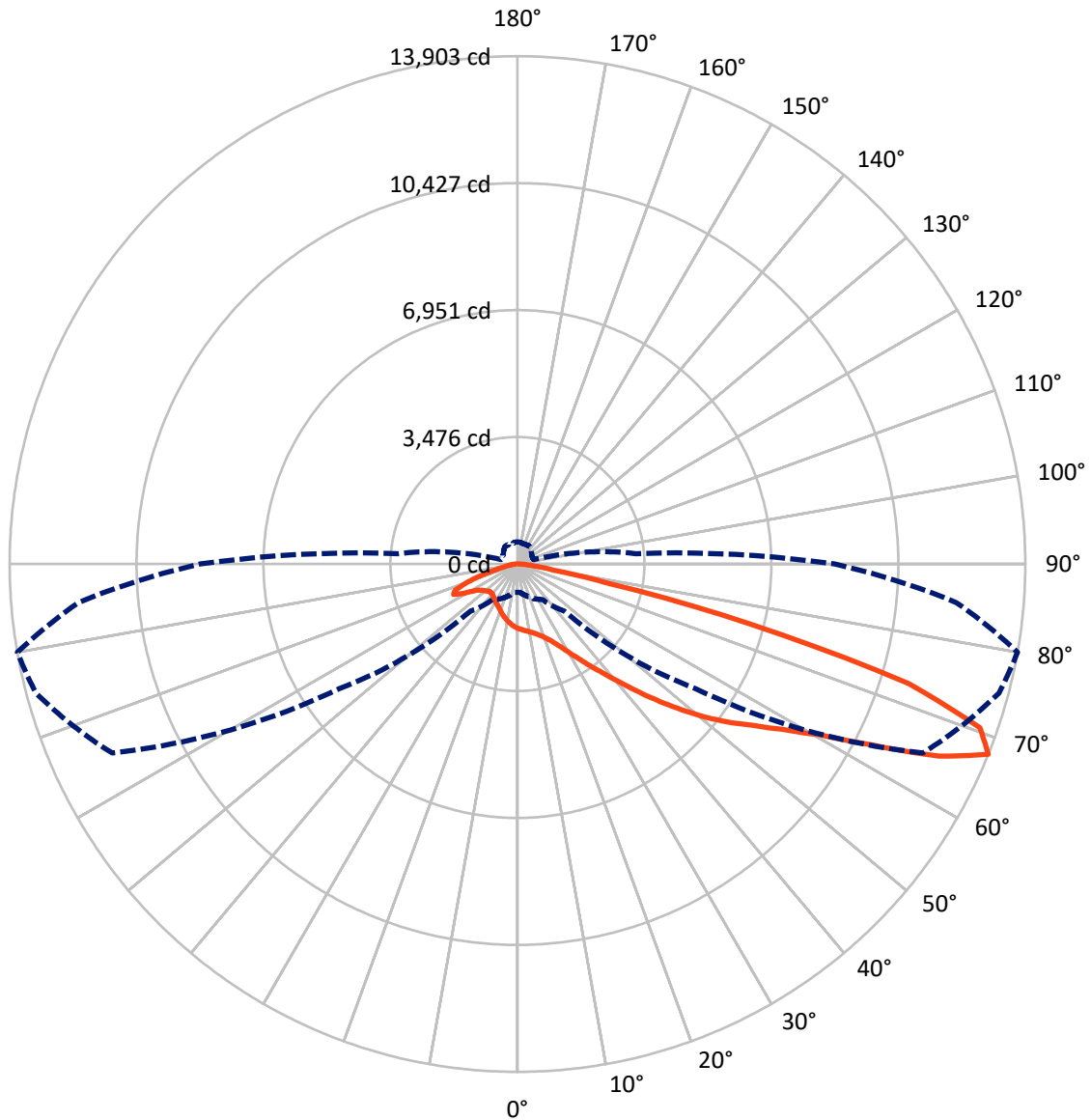
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	2333.0	0.0	2333.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10335.0	0.0	10335.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	12668.0	0.0	12668.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	1.3
10°-20°	467.7	3.7
20°-30°	774.1	6.1
30°-40°	1266.2	10.0
40°-50°	2044.5	16.1
50°-60°	2951.6	23.3
60°-70°	3257.3	25.7
70°-80°	1501.4	11.9
80°-90°	242.8	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°	12668.0	100.0
0°-180°	12668.0	100.0



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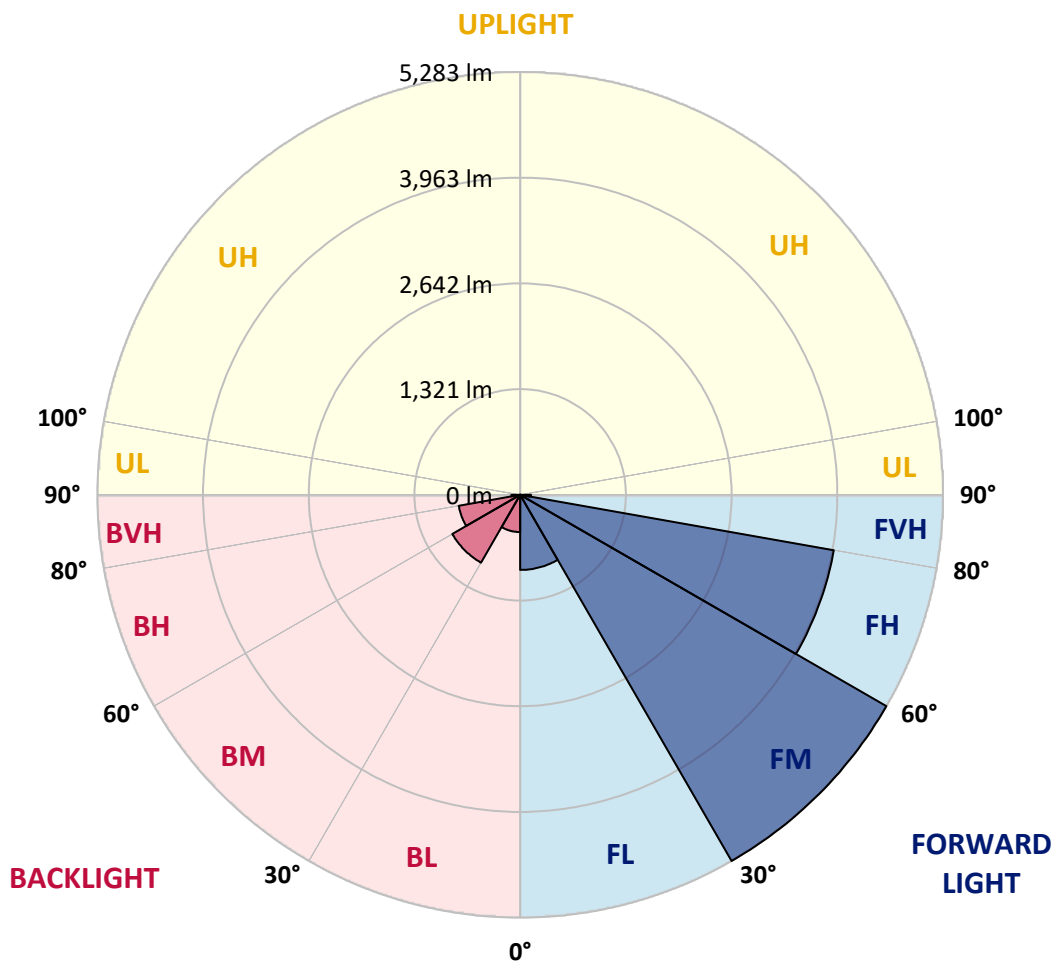
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.7	7.4			
FM (30°-60°)	5283.5	41.7			
FH (60°-80°)	3979.3	31.4			G2/5000
FVH (80°-90°)	133.5	1.1			G2/225
BL (0°-30°)	465.5	3.7	B1/500		
BM (30°-60°)	978.8	7.7	B1/1000		
BH (60°-80°)	779.4	6.2	B2/1000		G2/1000
BVH (80°-90°)	109.3	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°	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0
2.5°	1925.2	1914.0	1915.9	1912.7	1903.4	1887.2	1869.7	1837.9	1804.9	1787.4	1773.7
5°	2086.1	2083.0	2078.6	2068.7	2045.0	2011.3	1969.5	1913.4	1852.9	1821.1	1790.5
7.5°	2206.5	2204.6	2199.0	2192.8	2169.7	2129.2	2066.2	1986.3	1898.4	1854.7	1807.4
10°	2216.5	2219.6	2224.0	2240.8	2243.9	2222.1	2157.8	2061.2	1945.8	1889.7	1829.2
12.5°	2131.7	2138.5	2155.4	2198.4	2243.9	2270.7	2237.7	2139.8	2001.3	1933.3	1856.6
15°	2019.4	2023.1	2043.7	2103.0	2184.7	2267.6	2298.8	2226.4	2073.0	1989.5	1897.8
17.5°	1971.4	1973.2	1987.6	2026.9	2103.0	2221.5	2333.1	2320.6	2161.0	2059.3	1948.3
20°	1947.1	1951.4	1972.0	2010.7	2058.7	2162.2	2338.1	2422.3	2265.7	2146.6	2011.9
22.5°	2016.3	2014.4	2021.9	2041.2	2081.8	2144.1	2334.3	2527.0	2399.2	2258.9	2094.9
25°	2177.8	2184.7	2171.6	2149.7	2162.8	2206.5	2354.3	2640.6	2566.3	2402.9	2203.4
27.5°	2407.9	2401.1	2381.7	2330.6	2303.8	2322.5	2420.4	2762.8	2774.0	2592.5	2346.8
30°	2637.4	2631.8	2613.1	2550.7	2495.9	2480.3	2548.9	2903.1	3021.6	2820.2	2522.7
32.5°	2875.7	2869.4	2852.0	2789.6	2723.5	2687.3	2731.6	3065.3	3313.5	3092.1	2729.7
35°	3169.4	3157.6	3120.8	3034.1	2969.2	2941.2	2961.7	3269.2	3650.3	3413.9	2981.1
37.5°	3445.7	3463.8	3426.4	3306.6	3222.4	3212.4	3235.5	3518.0	4013.2	3773.7	3269.8
40°	3723.2	3726.3	3692.7	3594.7	3508.1	3491.8	3549.8	3819.9	4441.7	4204.1	3620.9
42.5°	4010.1	4016.3	3959.6	3869.2	3805.5	3808.7	3874.8	4173.5	4933.1	4711.1	4025.1
45°	4350.0	4359.3	4297.0	4178.5	4120.5	4237.1	4209.7	4570.1	5471.9	5287.3	4489.1
47.5°	4705.5	4719.8	4672.4	4561.4	4489.1	4649.3	4544.6	5009.8	6051.9	5905.4	4998.6
50°	4899.4	4920.0	4966.2	4958.1	4942.5	4915.6	4918.1	5481.3	6650.0	6549.0	5522.5
52.5°	4795.3	4794.7	4963.0	5167.6	5385.9	5402.1	5373.4	5978.4	7208.8	7178.3	6015.8
55°	4318.8	4351.2	4606.3	5002.3	5598.5	5970.9	6055.7	6547.8	7757.6	7793.2	6516.6
57.5°	3525.5	3552.3	3896.6	4448.5	5311.7	6308.9	7026.1	7375.3	8371.3	8537.2	7183.3
60°	2391.1	2423.5	2788.4	3451.3	4539.6	6120.5	7949.7	8852.2	9106.0	9483.3	8118.7
62.5°	1405.1	1434.4	1731.9	2177.2	3196.2	5245.6	8355.1	10953.2	10272.8	10910.8	9545.7
65°	967.3	987.2	1131.9	1355.2	1836.7	3533.0	7852.4	12403.9	12068.3	12679.5	11200.2
67.5°	778.3	775.8	890.6	1042.8	1182.4	1821.7	5937.8	12239.8	13647.4	13902.5	12059.0
70°	641.1	638.6	716.6	842.6	944.8	1025.9	3234.3	10329.0	13325.6	13429.2	11268.2
72.5°	536.3	538.8	588.7	682.3	775.2	772.7	1421.3	7266.2	10483.0	11199.0	8982.5
75°	452.8	454.0	487.1	553.2	629.3	622.4	770.8	3936.5	6093.7	6592.0	4979.3
77.5°	385.4	386.7	407.9	444.7	498.9	496.4	562.5	1700.7	2542.0	2510.8	1703.2
80°	343.6	343.6	353.6	360.5	390.4	379.2	417.2	817.0	1074.6	992.2	679.8
82.5°	269.4	270.7	331.8	329.3	307.5	293.1	293.1	481.5	569.4	526.4	397.9
85°	151.5	150.9	213.9	258.2	270.7	206.4	204.6	269.4	310.0	273.2	192.7
87.5°	64.9	66.1	99.2	114.8	153.4	128.5	126.6	139.1	157.8	136.6	89.2
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°	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0
2.5°	1760.6	1744.4	1708.8	1664.5	1624.6	1598.4	1574.7	1540.4	1542.3	1518.6	1501.1
5°	1759.3	1725.7	1643.3	1545.4	1451.2	1383.3	1332.1	1286.0	1274.8	1252.9	1239.8
7.5°	1760.6	1705.7	1567.2	1410.7	1294.1	1208.0	1164.4	1140.0	1134.4	1126.9	1127.6
10°	1764.9	1687.6	1483.7	1284.7	1162.5	1105.7	1095.1	1102.6	1111.4	1113.8	1114.5
12.5°	1774.9	1671.4	1392.0	1172.5	1080.2	1062.7	1080.8	1106.4	1123.2	1131.3	1130.7
15°	1797.4	1658.9	1304.1	1084.5	1034.6	1044.0	1077.7	1113.8	1138.2	1149.4	1150.0
17.5°	1821.7	1640.8	1213.6	1017.2	1001.0	1024.7	1066.4	1108.9	1138.8	1151.3	1153.8
20°	1853.5	1618.4	1118.8	966.7	969.2	996.0	1035.3	1077.7	1110.7	1121.3	1126.3
22.5°	1895.3	1594.1	1035.9	925.5	933.0	953.6	984.1	1020.9	1049.6	1054.6	1059.0
25°	1951.4	1567.9	969.8	888.1	891.2	903.1	923.6	945.5	965.4	959.8	964.2
27.5°	2026.9	1545.4	920.5	853.8	848.2	850.7	861.3	868.1	878.7	863.1	865.0
30°	2115.4	1521.1	882.5	823.8	808.3	803.9	806.4	810.1	818.2	797.0	793.9
32.5°	2218.3	1491.8	846.9	797.7	775.8	767.1	768.3	778.3	809.5	796.4	789.5
35°	2338.1	1458.7	809.5	769.0	754.0	741.5	740.3	771.5	864.4	856.3	850.0
37.5°	2478.4	1425.7	772.1	736.5	737.8	724.1	719.7	755.2	875.0	843.2	838.8
40°	2656.8	1408.2	740.3	702.2	717.8	716.0	707.2	725.3	805.1	747.1	739.7
42.5°	2877.5	1410.7	716.6	665.4	694.1	714.1	700.4	701.0	729.7	686.0	679.2
45°	3150.1	1440.0	699.7	636.1	667.3	712.2	697.9	687.9	690.4	667.3	663.6
47.5°	3468.1	1500.5	687.9	611.8	641.7	705.4	697.2	684.1	678.5	666.1	662.9
50°	3821.8	1588.4	679.2	588.7	618.7	694.1	697.9	680.4	674.2	669.2	667.3
52.5°	4169.1	1688.9	666.1	568.8	600.6	680.4	699.7	676.7	669.8	666.1	664.2
55°	4556.4	1814.2	646.1	551.9	585.6	662.9	699.7	671.1	663.6	664.2	663.6
57.5°	5079.7	2016.9	622.4	537.6	567.5	641.7	687.9	664.8	655.5	656.1	656.7
60°	5897.3	2374.3	593.7	523.2	545.1	616.8	671.7	651.1	641.7	644.2	644.9
62.5°	7099.7	2898.7	556.3	502.0	521.4	590.0	649.2	633.6	624.3	630.5	630.5
65°	8349.5	3361.5	510.1	475.2	496.4	560.7	621.2	611.8	602.5	616.8	616.2
67.5°	8685.6	3258.0	464.0	445.9	471.5	528.2	587.5	582.5	577.5	602.5	601.2
70°	7715.9	2615.6	421.6	416.0	444.0	493.3	551.3	551.3	548.2	566.9	562.5
72.5°	5878.6	1854.7	381.1	384.2	412.9	455.3	512.0	516.4	511.4	520.8	517.0
75°	3147.0	1061.5	340.5	349.2	374.2	416.6	468.4	472.7	469.6	469.0	470.9
77.5°	1045.9	518.9	298.1	311.8	333.7	376.7	422.8	429.7	422.2	421.0	420.3
80°	465.9	326.2	251.3	269.4	288.8	331.2	374.8	380.4	372.3	383.5	369.2
82.5°	299.4	214.5	201.4	221.4	240.1	285.6	326.8	328.0	320.6	372.3	317.4
85°	145.3	132.8	151.5	169.6	185.8	224.5	270.7	271.3	252.6	230.1	222.0
87.5°	72.3	77.3	101.0	117.2	125.4	154.0	197.1	193.3	185.2	168.4	155.3
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)