

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: P193921

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193921
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-03-LED-E1-T2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15963 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

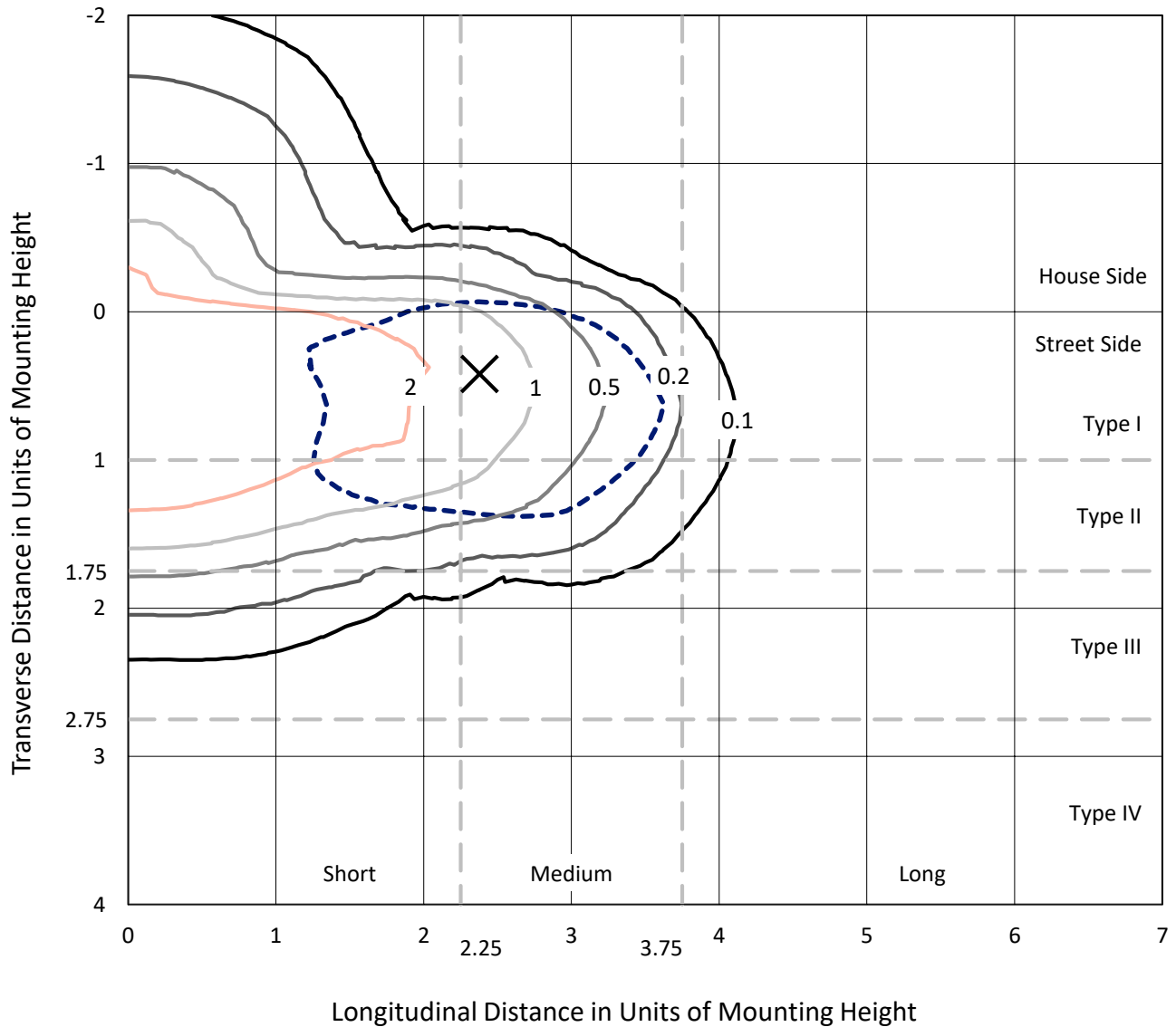


REPORT NUMBER: P193921

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

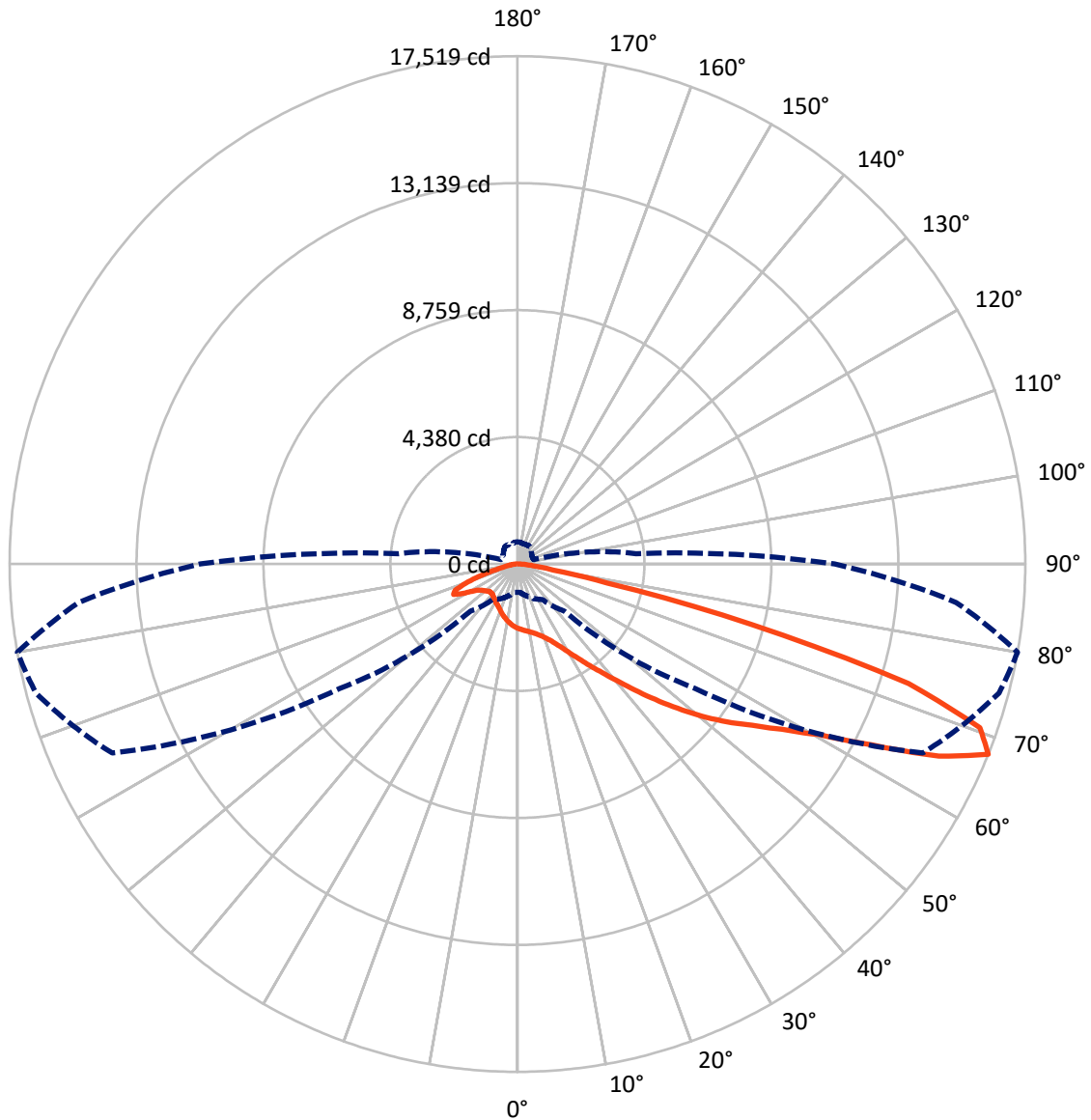
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P193921
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193921

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2939.8	0.0	2939.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	13023.2	0.0	13023.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	15963.0	0.0	15963.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	1.3
10°-20°	589.3	3.7
20°-30°	975.5	6.1
30°-40°	1595.6	10.0
40°-50°	2576.2	16.1
50°-60°	3719.3	23.3
60°-70°	4104.5	25.7
70°-80°	1891.9	11.9
80°-90°	306.0	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°	15963.0	100.0
0°-180°	15963.0	100.0



REPORT NUMBER: P193921

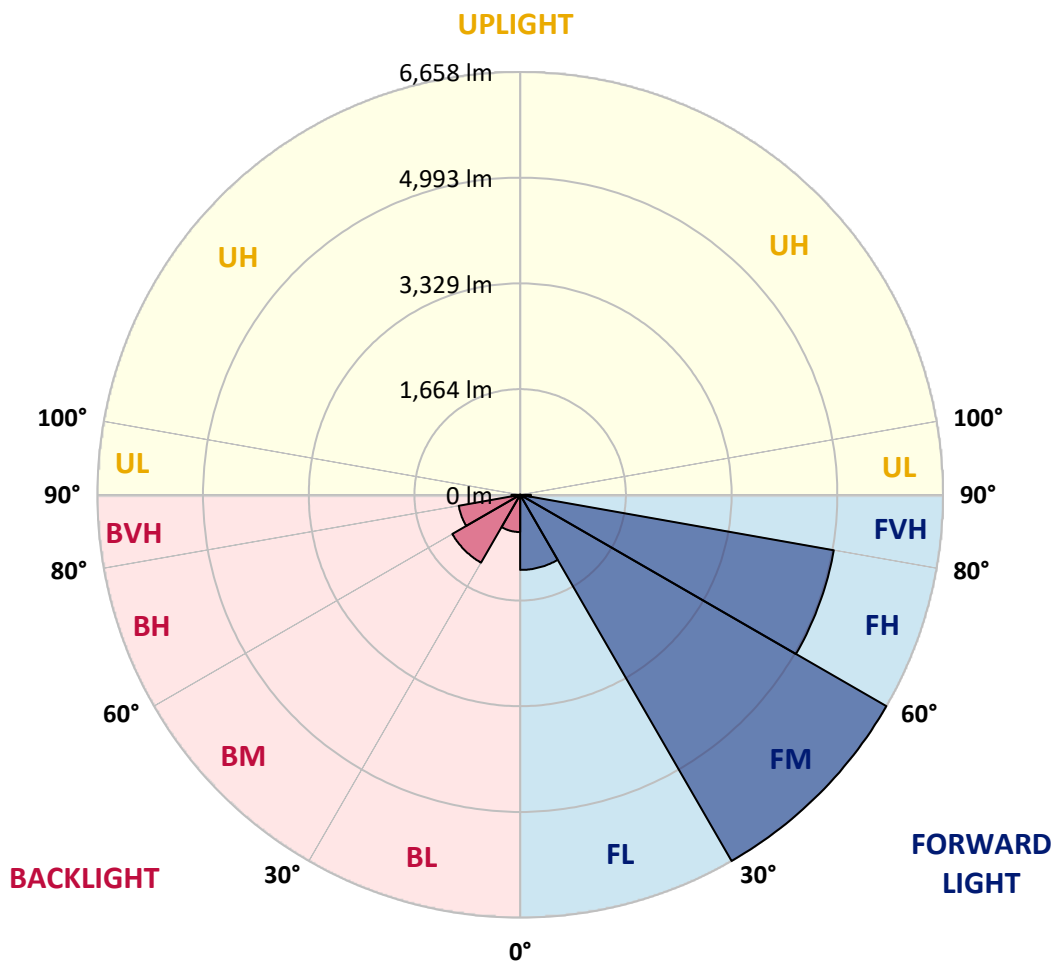
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.8	7.4			
FM (30°-60°)	6657.8	41.7			
FH (60°-80°)	5014.4	31.4			G3/7500
FVH (80°-90°)	168.2	1.1			G2/225
BL (0°-30°)	586.5	3.7	B2/1000		
BM (30°-60°)	1233.4	7.7	B2/2500		
BH (60°-80°)	982.1	6.2	B2/1000		G2/1000
BVH (80°-90°)	137.8	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-G3

Type II Medium





REPORT NUMBER: P193921

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2426.0	2411.8	2414.2	2410.3	2398.5	2378.0	2356.0	2316.0	2274.3	2252.3	2235.0
5°	2628.7	2624.8	2619.3	2606.7	2576.9	2534.4	2481.8	2411.0	2334.8	2294.7	2256.2
7.5°	2780.4	2778.1	2771.0	2763.1	2734.0	2683.0	2603.6	2503.0	2392.2	2337.2	2277.5
10°	2793.0	2796.9	2802.4	2823.6	2827.6	2800.1	2719.1	2597.3	2451.9	2381.2	2305.0
12.5°	2686.1	2694.7	2716.0	2770.2	2827.6	2861.4	2819.7	2696.3	2521.9	2436.2	2339.5
15°	2544.6	2549.4	2575.3	2650.0	2752.9	2857.4	2896.7	2805.6	2612.2	2506.9	2391.4
17.5°	2484.1	2486.5	2504.6	2554.1	2650.0	2799.3	2939.9	2924.2	2723.0	2594.9	2455.1
20°	2453.5	2459.0	2484.9	2533.6	2594.2	2724.6	2946.2	3052.3	2855.1	2705.0	2535.2
22.5°	2540.7	2538.4	2547.8	2572.2	2623.2	2701.8	2941.5	3184.3	3023.2	2846.4	2639.7
25°	2744.3	2752.9	2736.4	2708.9	2725.4	2780.4	2966.7	3327.4	3233.9	3028.0	2776.5
27.5°	3034.2	3025.6	3001.2	2936.8	2903.0	2926.6	3050.0	3481.4	3495.5	3266.9	2957.2
30°	3323.4	3316.4	3292.8	3214.2	3145.1	3125.4	3211.9	3658.2	3807.5	3553.7	3178.8
32.5°	3623.6	3615.8	3593.8	3515.2	3431.9	3386.3	3442.1	3862.6	4175.3	3896.3	3439.8
35°	3993.8	3978.9	3932.5	3823.3	3741.5	3706.2	3732.1	4119.5	4599.7	4301.9	3756.5
37.5°	4341.9	4364.7	4317.6	4166.7	4060.6	4048.0	4077.1	4433.1	5057.1	4755.3	4120.3
40°	4691.6	4695.6	4653.1	4529.8	4420.5	4400.1	4473.2	4813.5	5597.0	5297.5	4562.8
42.5°	5053.1	5061.0	4989.5	4875.5	4795.4	4799.3	4882.6	5259.0	6216.2	5936.5	5072.0
45°	5481.4	5493.2	5414.6	5265.3	5192.2	5339.2	5304.6	5758.9	6895.2	6662.6	5656.7
47.5°	5929.4	5947.5	5887.7	5747.9	5656.7	5858.7	5726.6	6312.9	7626.1	7441.4	6298.7
50°	6173.8	6199.7	6257.9	6247.7	6228.0	6194.2	6197.4	6907.0	8379.7	8252.4	6958.9
52.5°	6042.6	6041.8	6254.0	6511.7	6786.8	6807.2	6771.1	7533.3	9083.9	9045.4	7580.5
55°	5442.1	5483.0	5804.4	6303.5	7054.8	7523.9	7630.8	8250.8	9775.4	9820.2	8211.6
57.5°	4442.5	4476.3	4910.1	5605.6	6693.3	7949.9	8853.6	9293.7	10548.7	10757.8	9051.6
60°	3013.0	3053.9	3513.6	4349.0	5720.3	7712.5	10017.5	11154.6	11474.5	11949.9	10230.5
62.5°	1770.6	1807.5	2182.4	2743.5	4027.6	6610.0	10528.3	13802.2	12944.8	13748.8	12028.5
65°	1218.9	1244.0	1426.4	1707.7	2314.4	4452.0	9894.9	15630.2	15207.4	15977.5	14113.4
67.5°	980.8	977.6	1122.2	1314.0	1490.0	2295.5	7482.3	15423.5	17197.2	17518.6	15195.6
70°	807.9	804.7	903.0	1061.7	1190.6	1292.8	4075.5	13015.6	16791.7	16922.1	14199.1
72.5°	675.8	679.0	741.9	859.7	976.8	973.7	1791.0	9156.2	13209.7	14111.9	11318.9
75°	570.5	572.1	613.8	697.1	792.9	784.3	971.3	4960.4	7678.7	8306.6	6274.4
77.5°	485.7	487.2	514.0	560.3	628.7	625.6	708.9	2143.1	3203.2	3163.9	2146.2
80°	433.0	433.0	445.6	454.2	492.0	477.8	525.7	1029.5	1354.1	1250.3	856.6
82.5°	339.5	341.1	418.1	414.9	387.4	369.4	369.4	606.7	717.5	663.3	501.4
85°	191.0	190.2	269.6	325.4	341.1	260.1	257.8	339.5	390.6	344.2	242.8
87.5°	81.7	83.3	125.0	144.6	193.3	161.9	159.5	175.2	198.8	172.1	112.4
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°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2218.5	2198.1	2153.3	2097.5	2047.2	2014.2	1984.3	1941.1	1943.5	1913.6	1891.6
5°	2216.9	2174.5	2070.8	1947.4	1828.7	1743.1	1678.6	1620.5	1606.3	1578.8	1562.3
7.5°	2218.5	2149.4	1974.9	1777.6	1630.7	1522.2	1467.2	1436.6	1429.5	1420.1	1420.9
10°	2224.0	2126.6	1869.6	1618.9	1464.9	1393.3	1380.0	1389.4	1400.4	1403.6	1404.3
12.5°	2236.6	2106.1	1754.1	1477.4	1361.1	1339.1	1361.9	1394.1	1415.4	1425.6	1424.8
15°	2264.9	2090.4	1643.3	1366.6	1303.8	1315.5	1358.0	1403.6	1434.2	1448.4	1449.1
17.5°	2295.5	2067.6	1529.3	1281.8	1261.3	1291.2	1343.8	1397.3	1435.0	1450.7	1453.9
20°	2335.6	2039.3	1409.9	1218.1	1221.2	1255.0	1304.5	1358.0	1399.6	1413.0	1419.3
22.5°	2388.3	2008.7	1305.3	1166.2	1175.7	1201.6	1240.1	1286.5	1322.6	1328.9	1334.4
25°	2459.0	1975.7	1222.0	1119.1	1123.0	1137.9	1163.9	1191.4	1216.5	1209.5	1215.0
27.5°	2554.1	1947.4	1159.9	1075.9	1068.8	1071.9	1085.3	1093.9	1107.3	1087.6	1090.0
30°	2665.7	1916.7	1112.0	1038.1	1018.5	1013.0	1016.1	1020.8	1031.1	1004.3	1000.4
32.5°	2795.3	1879.8	1067.2	1005.1	977.6	966.6	968.2	980.8	1020.1	1003.6	994.9
35°	2946.2	1838.1	1020.1	969.0	950.1	934.4	932.8	972.1	1089.2	1079.0	1071.1
37.5°	3123.0	1796.5	972.9	928.1	929.7	912.4	906.9	951.7	1102.6	1062.5	1057.0
40°	3347.8	1774.5	932.8	884.9	904.5	902.2	891.2	914.0	1014.6	941.5	932.0
42.5°	3626.0	1777.6	903.0	838.5	874.7	899.8	882.5	883.3	919.5	864.5	855.8
45°	3969.4	1814.6	881.7	801.6	840.9	897.5	879.4	866.8	870.0	840.9	836.2
47.5°	4370.2	1890.8	866.8	770.9	808.7	888.8	878.6	862.1	855.0	839.3	835.4
50°	4815.8	2001.6	855.8	741.9	779.6	874.7	879.4	857.4	849.5	843.2	840.9
52.5°	5253.5	2128.1	839.3	716.7	756.8	857.4	881.7	852.7	844.0	839.3	837.0
55°	5741.6	2286.1	814.2	695.5	737.9	835.4	881.7	845.6	836.2	837.0	836.2
57.5°	6400.9	2541.5	784.3	677.4	715.1	808.7	866.8	837.7	825.9	826.7	827.5
60°	7431.2	2991.8	748.1	659.3	686.9	777.2	846.4	820.4	808.7	811.8	812.6
62.5°	8946.3	3652.7	701.0	632.6	657.0	743.4	818.1	798.4	786.7	794.5	794.5
65°	10521.2	4235.8	642.8	598.8	625.6	706.5	782.7	770.9	759.2	777.2	776.4
67.5°	10944.8	4105.4	584.7	561.9	594.1	665.6	740.3	734.0	727.7	759.2	757.6
70°	9722.8	3295.9	531.2	524.2	559.5	621.6	694.7	694.7	690.8	714.4	708.9
72.5°	7407.6	2337.2	480.2	484.1	520.2	573.7	645.2	650.7	644.4	656.2	651.5
75°	3965.5	1337.6	429.1	440.1	471.5	525.0	590.2	595.7	591.8	591.0	593.3
77.5°	1317.9	653.8	375.6	392.9	420.4	474.7	532.8	541.5	532.0	530.5	529.7
80°	587.0	411.0	316.7	339.5	363.9	417.3	472.3	479.4	469.2	483.3	465.2
82.5°	377.2	270.3	253.8	279.0	302.6	359.9	411.8	413.4	403.9	469.2	400.0
85°	183.1	167.4	191.0	213.8	234.2	282.9	341.1	341.9	318.3	290.0	279.8
87.5°	91.2	97.4	127.3	147.7	158.0	194.1	248.3	243.6	233.4	212.2	195.7
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)