

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: P193101

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193101
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-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13934.9 lumens
Efficiency: N/A
Efficacy: 112.4 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): 124
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



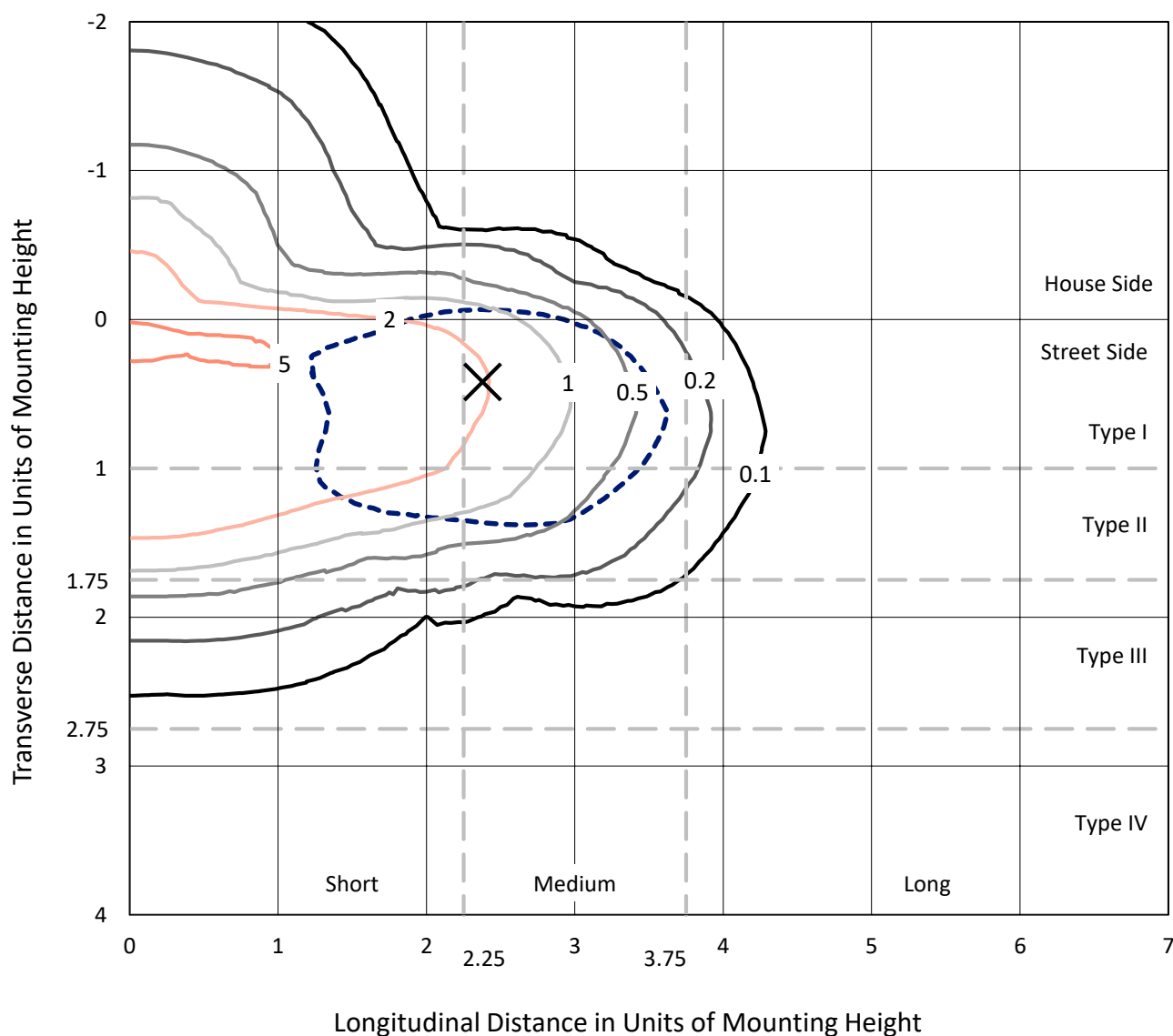
REPORT NUMBER: P193101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

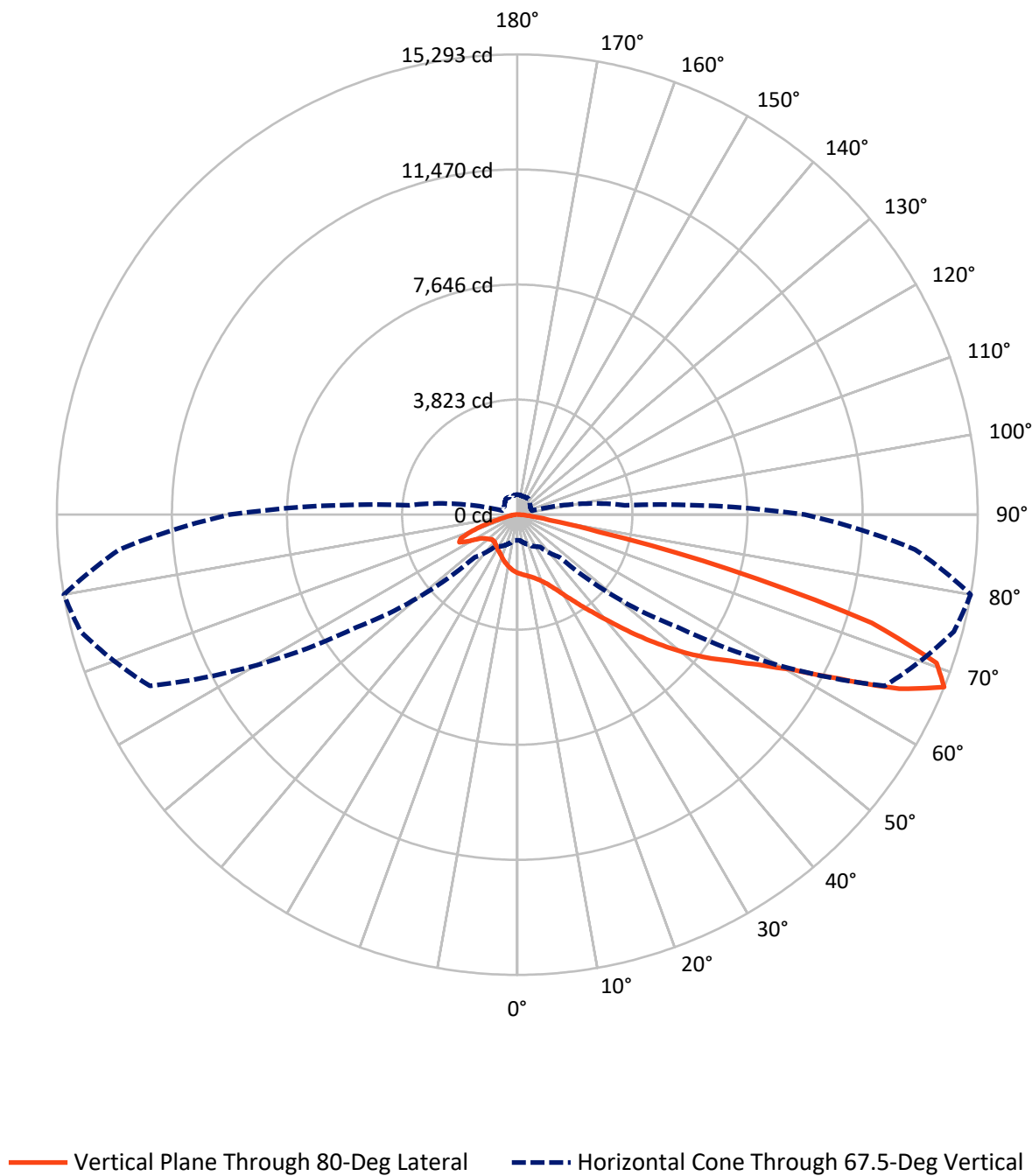


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2566.3	0.0	2566.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11368.6	0.0	11368.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	13934.9	0.0	13934.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.3
10°-20°	514.4	3.7
20°-30°	851.5	6.1
30°-40°	1392.9	10.0
40°-50°	2248.9	16.1
50°-60°	3246.8	23.3
60°-70°	3583.1	25.7
70°-80°	1651.6	11.9
80°-90°	267.1	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°	13934.9	100.0
0°-180°	13934.9	100.0

Coefficient of Utilization



REPORT NUMBER: P193101

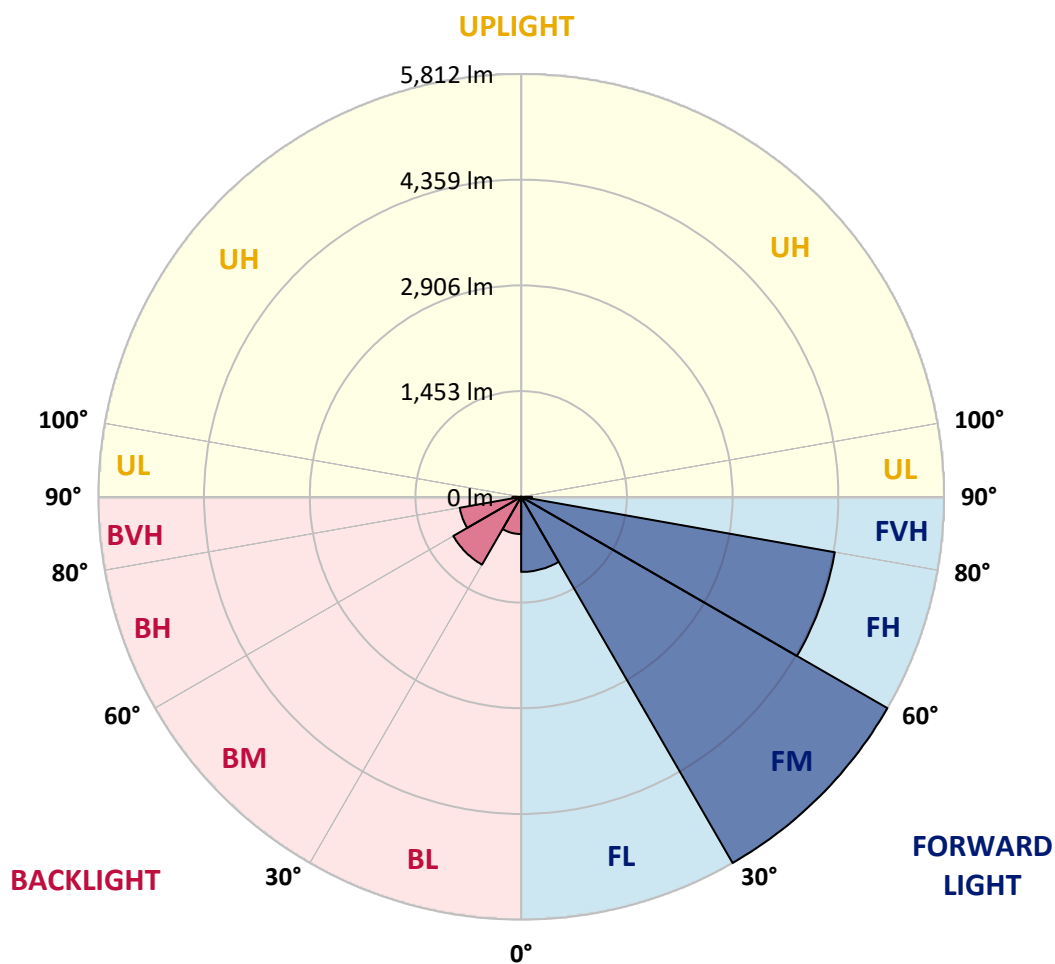
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1032.5	7.4			
FM	(30°-60°)	5811.9	41.7			
FH	(60°-80°)	4377.3	31.4			G2/5000
FVH	(80°-90°)	146.9	1.1			G2/225
BL	(0°-30°)	512.0	3.7	B2/1000		
BM	(30°-60°)	1076.7	7.7	B2/2500		
BH	(60°-80°)	857.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	120.3	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



REPORT NUMBER: P193101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0
2.5°	2117.8	2105.4	2107.5	2104.0	2093.7	2075.9	2056.7	2021.8	1985.4	1966.1	1951.1
5°	2294.8	2291.2	2286.6	2275.6	2249.4	2212.4	2166.5	2104.8	2038.2	2003.2	1969.6
7.5°	2427.2	2425.1	2418.9	2412.1	2386.7	2342.1	2272.8	2184.9	2088.3	2040.2	1988.1
10°	2438.1	2441.6	2446.5	2464.9	2468.2	2444.3	2373.6	2267.3	2140.4	2078.6	2012.1
12.5°	2344.8	2352.4	2370.9	2418.2	2468.2	2497.7	2461.5	2353.8	2201.5	2126.7	2042.3
15°	2221.3	2225.5	2248.1	2313.2	2403.1	2494.4	2528.7	2449.1	2280.3	2188.5	2087.6
17.5°	2168.6	2170.6	2186.4	2229.6	2313.2	2443.6	2566.4	2552.8	2377.1	2265.3	2143.1
20°	2141.8	2146.6	2169.3	2211.7	2264.6	2378.5	2572.0	2664.5	2492.3	2361.3	2213.1
22.5°	2218.0	2215.9	2224.1	2245.4	2290.0	2358.6	2567.8	2779.8	2639.1	2484.8	2304.4
25°	2395.6	2403.1	2388.7	2364.7	2379.1	2427.2	2589.8	2904.6	2823.0	2643.3	2423.7
27.5°	2648.8	2641.3	2619.9	2563.7	2534.2	2554.8	2662.4	3039.0	3051.4	2851.7	2581.5
30°	2901.2	2895.1	2874.5	2805.9	2745.4	2728.3	2803.8	3193.4	3323.7	3102.2	2774.9
32.5°	3163.3	3156.4	3137.2	3068.5	2995.9	2956.1	3004.8	3371.8	3644.9	3401.3	3002.8
35°	3486.4	3473.4	3432.9	3337.6	3266.2	3235.2	3257.9	3596.2	4015.3	3755.3	3279.2
37.5°	3790.3	3810.2	3769.0	3637.3	3544.7	3533.8	3559.1	3869.9	4414.6	4151.2	3596.9
40°	4095.6	4099.0	4061.9	3954.2	3858.9	3841.0	3904.8	4201.9	4885.8	4624.5	3983.0
42.5°	4411.2	4418.0	4355.6	4256.0	4186.2	4189.5	4262.3	4590.8	5426.5	5182.2	4427.6
45°	4785.0	4795.3	4726.8	4596.4	4532.6	4660.9	4630.6	5027.2	6019.2	5816.1	4938.0
47.5°	5176.0	5191.9	5139.7	5017.6	4938.0	5114.3	4999.0	5510.8	6657.1	6496.0	5498.5
50°	5389.4	5412.0	5462.9	5453.9	5436.7	5407.2	5410.0	6029.5	7315.1	7204.0	6074.9
52.5°	5274.8	5274.2	5459.3	5684.4	5924.5	5942.4	5910.8	6576.2	7929.8	7896.1	6617.4
55°	4750.7	4786.4	5067.0	5502.7	6158.5	6568.0	6661.3	7202.6	8533.4	8572.6	7168.3
57.5°	3878.1	3907.6	4286.2	4893.4	5842.8	6939.8	7728.8	8112.9	9208.5	9391.1	7901.6
60°	2630.2	2665.9	3067.2	3796.4	4993.5	6732.7	8744.8	9737.5	10016.7	10431.7	8930.8
62.5°	1545.6	1577.8	1905.1	2395.0	3515.9	5770.2	9190.7	12048.7	11300.2	12002.0	10500.4
65°	1064.0	1085.9	1245.1	1490.8	2020.3	3886.4	8637.7	13644.4	13275.3	13947.6	12320.4
67.5°	856.1	853.5	979.6	1147.0	1300.7	2004.0	6531.6	13463.9	15012.3	15292.9	13265.0
70°	705.3	702.5	788.2	926.8	1039.4	1128.5	3557.7	11362.0	14658.3	14772.2	12395.1
72.5°	590.0	592.7	647.6	750.5	852.8	850.0	1563.5	7992.9	11531.4	12319.0	9880.9
75°	498.0	499.5	535.8	608.5	692.1	684.6	848.0	4330.2	6703.2	7251.3	5477.2
77.5°	423.9	425.3	448.6	489.2	548.8	546.1	618.9	1870.8	2796.3	2762.0	1873.6
80°	378.0	378.0	389.0	396.5	429.5	417.2	459.0	898.6	1182.0	1091.5	747.8
82.5°	296.3	297.7	364.9	362.2	338.1	322.5	322.5	529.6	626.4	579.0	437.7
85°	166.7	166.0	235.4	284.0	297.7	227.0	225.0	296.3	341.0	300.5	212.0
87.5°	71.3	72.7	109.0	126.2	168.8	141.3	139.3	153.0	173.6	150.2	98.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0	1936.0
2.5°	1936.6	1918.8	1879.7	1830.9	1787.1	1758.3	1732.2	1694.5	1696.6	1670.5	1651.2
5°	1935.3	1898.3	1807.7	1700.0	1596.4	1521.7	1465.3	1414.6	1402.3	1378.2	1363.8
7.5°	1936.6	1876.3	1724.0	1551.8	1423.5	1328.8	1280.8	1254.1	1247.8	1239.6	1240.3
10°	1941.4	1856.5	1632.0	1413.3	1278.8	1216.3	1204.7	1212.9	1222.5	1225.3	1225.9
12.5°	1952.5	1838.5	1531.2	1289.7	1188.2	1169.0	1188.8	1217.0	1235.5	1244.5	1243.8
15°	1977.1	1824.8	1434.5	1193.0	1138.2	1148.5	1185.5	1225.3	1252.0	1264.3	1265.0
17.5°	2004.0	1805.0	1335.0	1119.0	1101.2	1127.1	1173.1	1219.8	1252.6	1266.5	1269.1
20°	2038.9	1780.3	1230.7	1063.3	1066.1	1095.6	1138.8	1185.5	1221.8	1233.4	1239.0
22.5°	2084.8	1753.5	1139.5	1018.1	1026.3	1048.9	1082.5	1123.0	1154.6	1160.2	1164.9
25°	2146.6	1724.6	1066.8	976.9	980.4	993.3	1016.0	1040.0	1062.0	1055.8	1060.6
27.5°	2229.6	1700.0	1012.7	939.2	933.0	935.7	947.4	954.9	966.6	949.5	951.5
30°	2327.0	1673.2	970.8	906.2	889.1	884.2	887.0	891.1	900.1	876.7	873.3
32.5°	2440.2	1641.0	931.7	877.5	853.5	843.8	845.2	856.1	890.5	876.0	868.5
35°	2572.0	1604.6	890.5	845.8	829.4	815.7	814.3	848.6	950.9	942.0	935.0
37.5°	2726.2	1568.3	849.3	810.1	811.6	796.5	791.7	830.8	962.5	927.5	922.7
40°	2922.4	1549.1	814.3	772.5	789.6	787.5	777.9	797.8	885.6	821.8	813.7
42.5°	3165.3	1551.8	788.2	732.0	763.5	785.5	770.4	771.1	802.6	754.7	747.2
45°	3465.1	1584.0	769.7	699.7	734.0	783.4	767.6	756.7	759.5	734.0	730.0
47.5°	3815.0	1650.6	756.7	673.0	706.0	775.8	767.0	752.6	746.4	732.7	729.2
50°	4204.0	1747.3	747.2	647.6	680.5	763.5	767.6	748.4	741.6	736.1	734.0
52.5°	4586.0	1857.7	732.7	625.6	660.7	748.4	769.7	744.4	736.9	732.7	730.6
55°	5012.2	1995.6	710.7	607.2	644.2	729.2	769.7	738.1	730.0	730.6	730.0
57.5°	5587.7	2218.6	684.6	591.3	624.3	706.0	756.7	731.3	721.0	721.6	722.4
60°	6487.0	2611.8	653.1	575.6	599.7	678.5	738.8	716.2	706.0	708.6	709.3
62.5°	7809.8	3188.6	612.0	552.3	573.5	649.0	714.1	697.0	686.7	693.6	693.6
65°	9184.6	3697.7	561.1	522.8	546.1	616.8	683.3	673.0	662.6	678.5	677.9
67.5°	9554.2	3583.8	510.4	490.5	518.7	581.0	646.3	640.7	635.3	662.6	661.3
70°	8487.5	2877.3	463.8	457.6	488.5	542.7	606.5	606.5	603.0	623.7	618.9
72.5°	6466.5	2040.2	419.1	422.7	454.2	500.9	563.2	568.0	562.5	572.8	568.7
75°	3461.7	1167.7	374.5	384.1	411.6	458.3	515.1	520.0	516.6	515.9	518.0
77.5°	1150.5	570.8	327.9	343.0	367.0	414.3	465.1	472.6	464.5	463.0	462.3
80°	512.4	358.8	276.4	296.3	317.6	364.3	412.4	418.5	409.5	422.0	406.1
82.5°	329.3	236.0	221.6	243.5	264.1	314.2	359.5	360.9	352.6	409.5	349.2
85°	159.8	146.1	166.7	186.7	204.5	246.9	297.7	298.4	277.8	253.2	244.2
87.5°	79.5	85.1	111.1	128.9	137.8	169.5	216.8	212.6	203.8	185.2	170.8
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)