

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: P193901

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193901
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-T2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 11757 lumens
Efficiency: N/A
Efficacy: 94.8 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

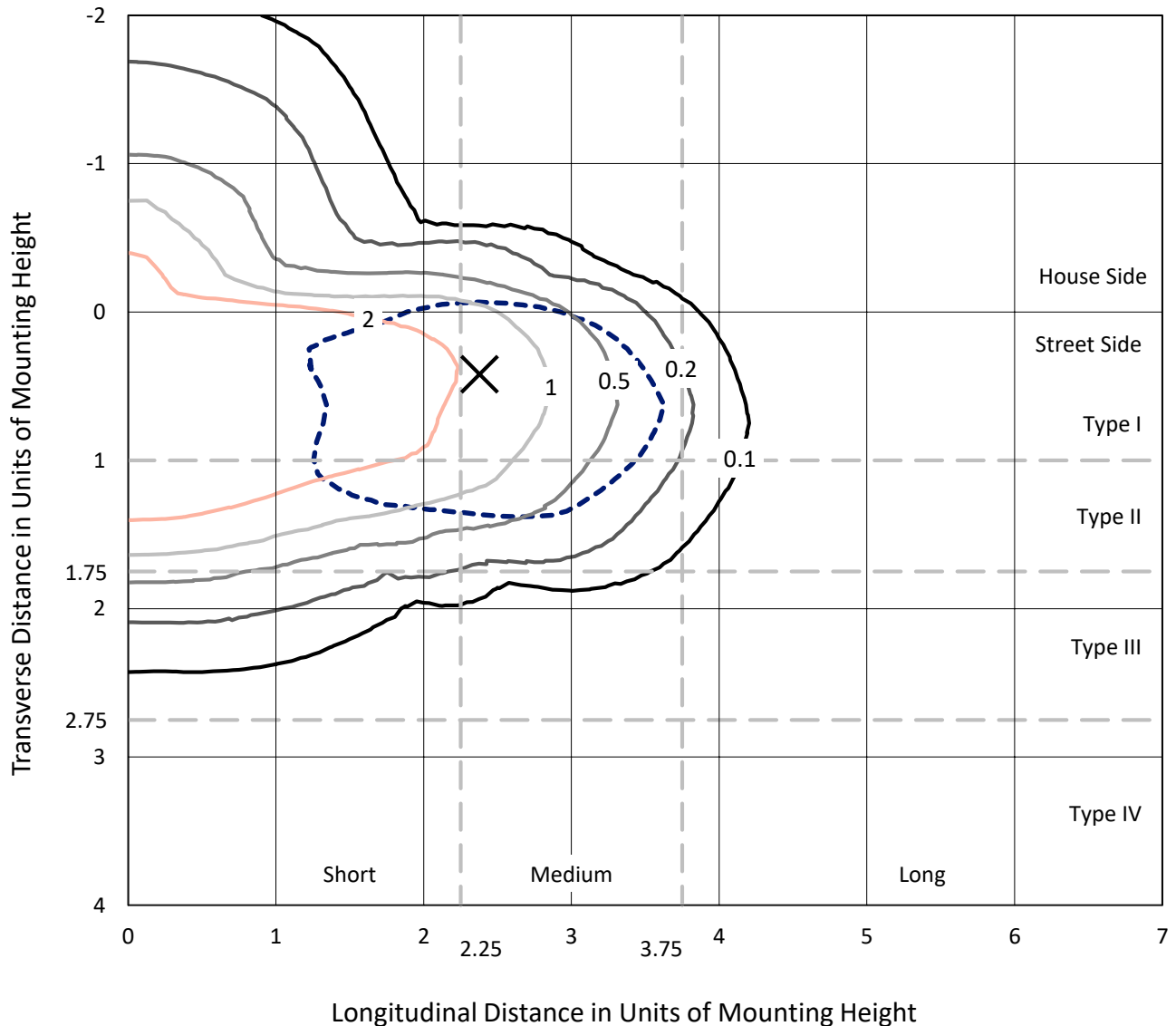


REPORT NUMBER: P193901

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-800

Iso-Footcandle Lines of Horizontal Illumination

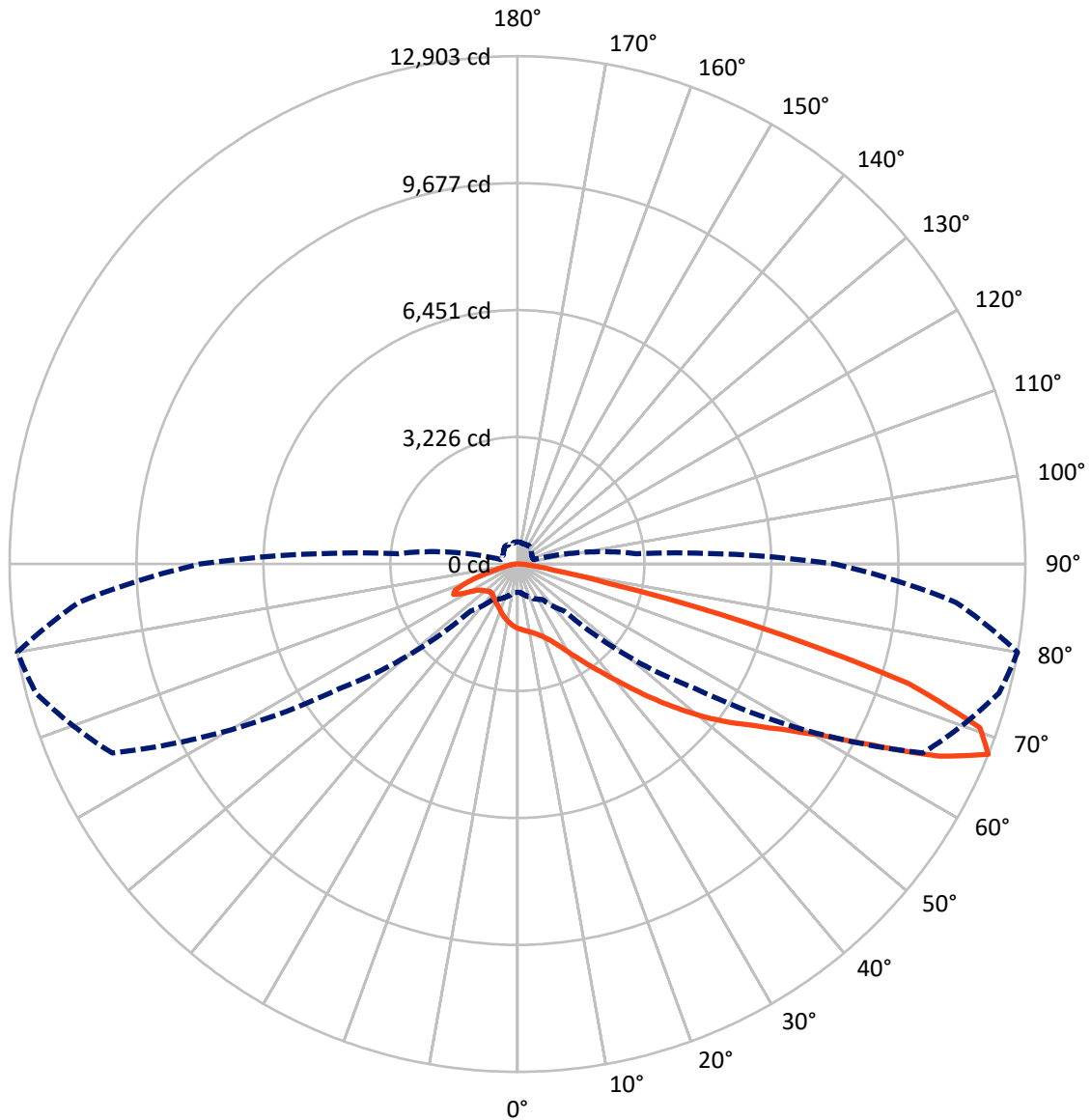
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193901
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193901

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.2	0.0	2165.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9591.8	0.0	9591.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	11757.0	0.0	11757.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.3
10°-20°	434.0	3.7
20°-30°	718.4	6.1
30°-40°	1175.2	10.0
40°-50°	1897.4	16.1
50°-60°	2739.4	23.3
60°-70°	3023.0	25.7
70°-80°	1393.4	11.9
80°-90°	225.4	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°	11757.0	100.0
0°-180°	11757.0	100.0



REPORT NUMBER: P193901

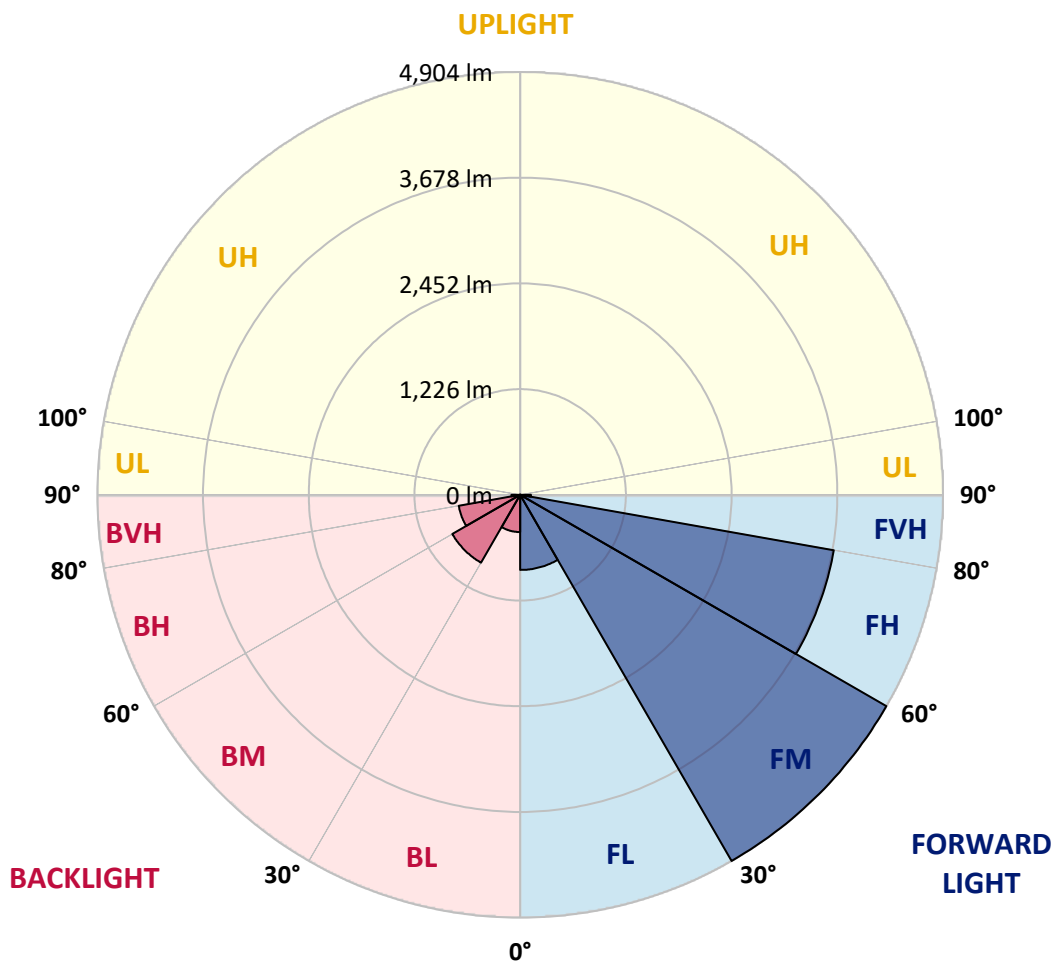
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.2	7.4			
FM (30°-60°)	4903.5	41.7			
FH (60°-80°)	3693.2	31.4			G2/5000
FVH (80°-90°)	123.9	1.1			G2/225
BL (0°-30°)	432.0	3.7	B1/500		
BM (30°-60°)	908.4	7.7	B1/1000		
BH (60°-80°)	723.3	6.2	B2/1000		G2/1000
BVH (80°-90°)	101.5	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: P193901

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4
2.5°	1786.8	1776.4	1778.1	1775.2	1766.5	1751.5	1735.3	1705.7	1675.1	1658.9	1646.1
5°	1936.1	1933.2	1929.2	1919.9	1897.9	1866.6	1827.9	1775.8	1719.6	1690.1	1661.8
7.5°	2047.8	2046.1	2040.9	2035.1	2013.7	1976.0	1917.6	1843.5	1761.9	1721.4	1677.4
10°	2057.1	2060.0	2064.0	2079.6	2082.5	2062.3	2002.7	1913.0	1805.9	1753.8	1697.6
12.5°	1978.4	1984.7	2000.4	2040.3	2082.5	2107.4	2076.8	1985.9	1857.4	1794.3	1723.1
15°	1874.2	1877.6	1896.7	1951.7	2027.6	2104.5	2133.5	2066.3	1923.9	1846.4	1761.3
17.5°	1829.6	1831.3	1844.7	1881.1	1951.7	2061.7	2165.3	2153.7	2005.6	1911.2	1808.2
20°	1807.0	1811.1	1830.2	1866.1	1910.6	2006.7	2169.9	2248.1	2102.8	1992.2	1867.2
22.5°	1871.3	1869.5	1876.5	1894.4	1932.1	1989.9	2166.5	2345.3	2226.7	2096.4	1944.2
25°	2021.2	2027.6	2015.4	1995.1	2007.3	2047.8	2185.0	2450.7	2381.8	2230.1	2044.9
27.5°	2234.8	2228.4	2210.5	2163.0	2138.1	2155.5	2246.3	2564.1	2574.5	2406.1	2178.0
30°	2447.8	2442.6	2425.2	2367.3	2316.4	2301.9	2365.6	2694.3	2804.3	2617.4	2341.3
32.5°	2668.9	2663.1	2646.9	2589.0	2527.6	2494.1	2535.2	2844.8	3075.2	2869.7	2533.4
35°	2941.5	2930.5	2896.3	2815.9	2755.7	2729.6	2748.7	3034.1	3387.7	3168.4	2766.7
37.5°	3197.9	3214.7	3180.0	3068.8	2990.7	2981.4	3002.8	3265.0	3724.6	3502.4	3034.7
40°	3455.5	3458.4	3427.1	3336.2	3255.8	3240.7	3294.6	3545.2	4122.3	3901.7	3360.5
42.5°	3721.7	3727.5	3674.8	3590.9	3531.9	3534.8	3596.1	3873.4	4578.4	4372.3	3735.6
45°	4037.2	4045.9	3988.0	3878.0	3824.2	3932.4	3906.9	4241.5	5078.4	4907.1	4166.2
47.5°	4367.1	4380.4	4336.4	4233.4	4166.2	4315.0	4217.8	4649.5	5616.7	5480.7	4639.1
50°	4547.1	4566.2	4609.0	4601.5	4587.0	4562.1	4564.5	5087.1	6171.8	6078.0	5125.3
52.5°	4450.4	4449.9	4606.1	4796.0	4998.6	5013.6	4987.0	5548.4	6690.4	6662.1	5583.2
55°	4008.2	4038.3	4275.1	4642.6	5195.9	5541.5	5620.2	6076.9	7199.8	7232.8	6047.9
57.5°	3272.0	3296.9	3616.4	4128.6	4929.7	5855.2	6520.8	6845.0	7769.3	7923.3	6666.7
60°	2219.1	2249.2	2587.8	3203.1	4213.1	5680.4	7378.0	8215.6	8451.1	8801.3	7534.9
62.5°	1304.0	1331.3	1607.3	2020.6	2966.4	4868.3	7754.3	10165.6	9534.1	10126.2	8859.2
65°	897.7	916.2	1050.5	1257.7	1704.6	3278.9	7287.7	11511.9	11200.5	11767.7	10394.8
67.5°	722.3	720.0	826.5	967.8	1097.4	1690.7	5510.8	11359.6	12666.0	12902.7	11191.8
70°	595.0	592.7	665.0	782.0	876.9	952.1	3001.7	9586.2	12367.3	12463.4	10457.9
72.5°	497.8	500.1	546.4	633.2	719.5	717.1	1319.1	6743.7	9729.1	10393.6	8336.5
75°	420.2	421.4	452.0	513.4	584.0	577.6	715.4	3653.4	5655.5	6118.0	4621.2
77.5°	357.7	358.9	378.5	412.7	463.0	460.7	522.1	1578.4	2359.2	2330.3	1580.7
80°	318.9	318.9	328.2	334.5	362.3	351.9	387.2	758.2	997.3	920.9	630.9
82.5°	250.0	251.2	307.9	305.6	285.4	272.0	272.0	446.8	528.4	488.5	369.3
85°	140.6	140.1	198.5	239.6	251.2	191.6	189.8	250.0	287.7	253.5	178.9
87.5°	60.2	61.4	92.0	106.5	142.4	119.2	117.5	129.1	146.4	126.8	82.8
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: P193901

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4	1633.4
2.5°	1634.0	1618.9	1585.9	1544.8	1507.8	1483.5	1461.5	1429.6	1431.4	1409.4	1393.2
5°	1632.8	1601.6	1525.2	1434.3	1346.9	1283.8	1236.3	1193.5	1183.1	1162.8	1150.7
7.5°	1634.0	1583.0	1454.5	1309.3	1201.0	1121.1	1080.6	1058.1	1052.8	1045.9	1046.5
10°	1638.0	1566.2	1377.0	1192.3	1078.9	1026.2	1016.4	1023.3	1031.4	1033.7	1034.3
12.5°	1647.3	1551.2	1291.9	1088.2	1002.5	986.3	1003.1	1026.8	1042.4	1050.0	1049.4
15°	1668.1	1539.6	1210.3	1006.5	960.2	968.9	1000.2	1033.7	1056.3	1066.7	1067.3
17.5°	1690.7	1522.8	1126.4	944.0	929.0	951.0	989.8	1029.1	1056.9	1068.5	1070.8
20°	1720.2	1502.0	1038.4	897.1	899.5	924.4	960.8	1000.2	1030.9	1040.7	1045.3
22.5°	1759.0	1479.4	961.4	858.9	865.9	885.0	913.4	947.5	974.1	978.8	982.8
25°	1811.1	1455.1	900.0	824.2	827.1	838.1	857.2	877.5	896.0	890.8	894.8
27.5°	1881.1	1434.3	854.3	792.4	787.2	789.5	799.3	805.7	815.5	801.1	802.8
30°	1963.3	1411.7	819.0	764.6	750.1	746.1	748.4	751.9	759.4	739.7	736.8
32.5°	2058.8	1384.5	786.0	740.3	720.0	711.9	713.1	722.3	751.3	739.1	732.8
35°	2169.9	1353.8	751.3	713.7	699.8	688.2	687.0	716.0	802.2	794.7	788.9
37.5°	2300.2	1323.1	716.6	683.6	684.7	672.0	667.9	700.9	812.1	782.5	778.5
40°	2465.7	1306.9	687.0	651.7	666.2	664.5	656.4	673.2	747.2	693.4	686.5
42.5°	2670.6	1309.3	665.0	617.6	644.2	662.7	650.0	650.6	677.2	636.7	630.3
45°	2923.5	1336.5	649.4	590.4	619.3	661.0	647.7	638.4	640.7	619.3	615.8
47.5°	3218.7	1392.6	638.4	567.8	595.6	654.6	647.1	634.9	629.7	618.2	615.3
50°	3546.9	1474.2	630.3	546.4	574.2	644.2	647.7	631.5	625.7	621.1	619.3
52.5°	3869.3	1567.4	618.2	527.9	557.4	631.5	649.4	628.0	621.6	618.2	616.4
55°	4228.8	1683.7	599.6	512.2	543.5	615.3	649.4	622.8	615.8	616.4	615.8
57.5°	4714.4	1871.9	577.6	498.9	526.7	595.6	638.4	617.0	608.3	608.9	609.5
60°	5473.2	2203.5	551.0	485.6	505.9	572.4	623.4	604.3	595.6	597.9	598.5
62.5°	6589.1	2690.3	516.3	465.9	483.9	547.6	602.5	588.1	579.4	585.2	585.2
65°	7749.0	3119.8	473.5	441.0	460.7	520.3	576.5	567.8	559.1	572.4	571.9
67.5°	8061.0	3023.7	430.6	413.8	437.6	490.2	545.2	540.6	536.0	559.1	558.0
70°	7161.0	2427.5	391.3	386.1	412.1	457.8	511.7	511.7	508.8	526.1	522.1
72.5°	5455.8	1721.4	353.7	356.5	383.2	422.5	475.2	479.3	474.6	483.3	479.8
75°	2920.7	985.1	316.0	324.1	347.3	386.6	434.7	438.7	435.8	435.3	437.0
77.5°	970.7	481.6	276.7	289.4	309.7	349.6	392.4	398.8	391.9	390.7	390.1
80°	432.4	302.7	233.3	250.0	268.0	307.3	347.9	353.1	345.5	356.0	342.7
82.5°	277.8	199.1	187.0	205.5	222.8	265.1	303.3	304.5	297.5	345.5	294.6
85°	134.9	123.3	140.6	157.4	172.5	208.4	251.2	251.8	234.4	213.6	206.1
87.5°	67.1	71.8	93.8	108.8	116.3	143.0	182.9	179.4	171.9	156.3	144.1
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)