

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: P192151

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192151
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-T2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11749 lumens
Efficiency: N/A
Efficacy: 122.4 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

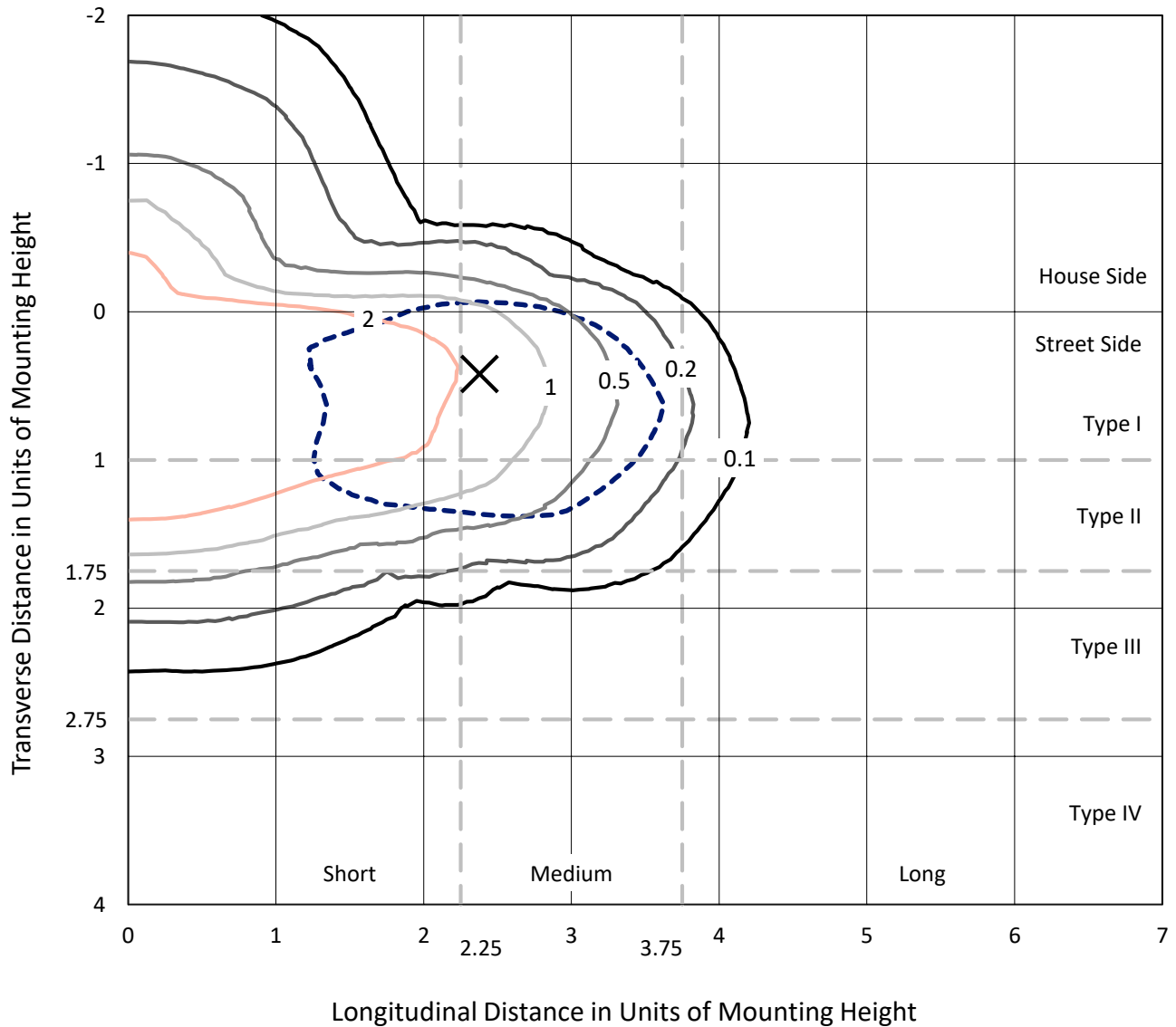
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192151
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7050-600

Iso-Footcandle Lines of Horizontal Illumination

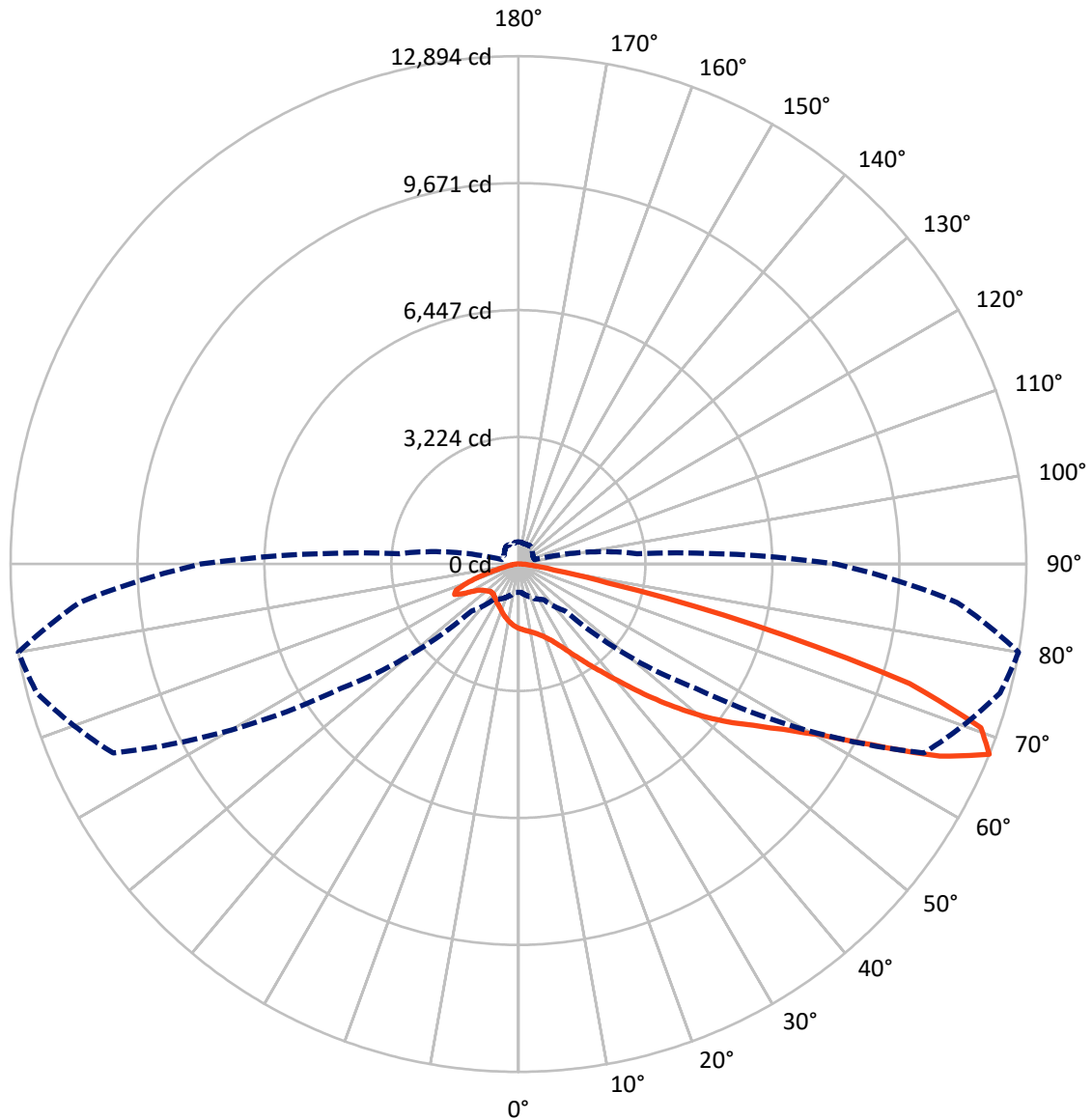
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P192151
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7050-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192151

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2163.7	0.0	2163.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9585.3	0.0	9585.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	11749.0	0.0	11749.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.3
10°-20°	433.7	3.7
20°-30°	718.0	6.1
30°-40°	1174.4	10.0
40°-50°	1896.2	16.1
50°-60°	2737.5	23.3
60°-70°	3021.0	25.7
70°-80°	1392.5	11.9
80°-90°	225.2	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°	11749.0	100.0
0°-180°	11749.0	100.0



REPORT NUMBER: P192151

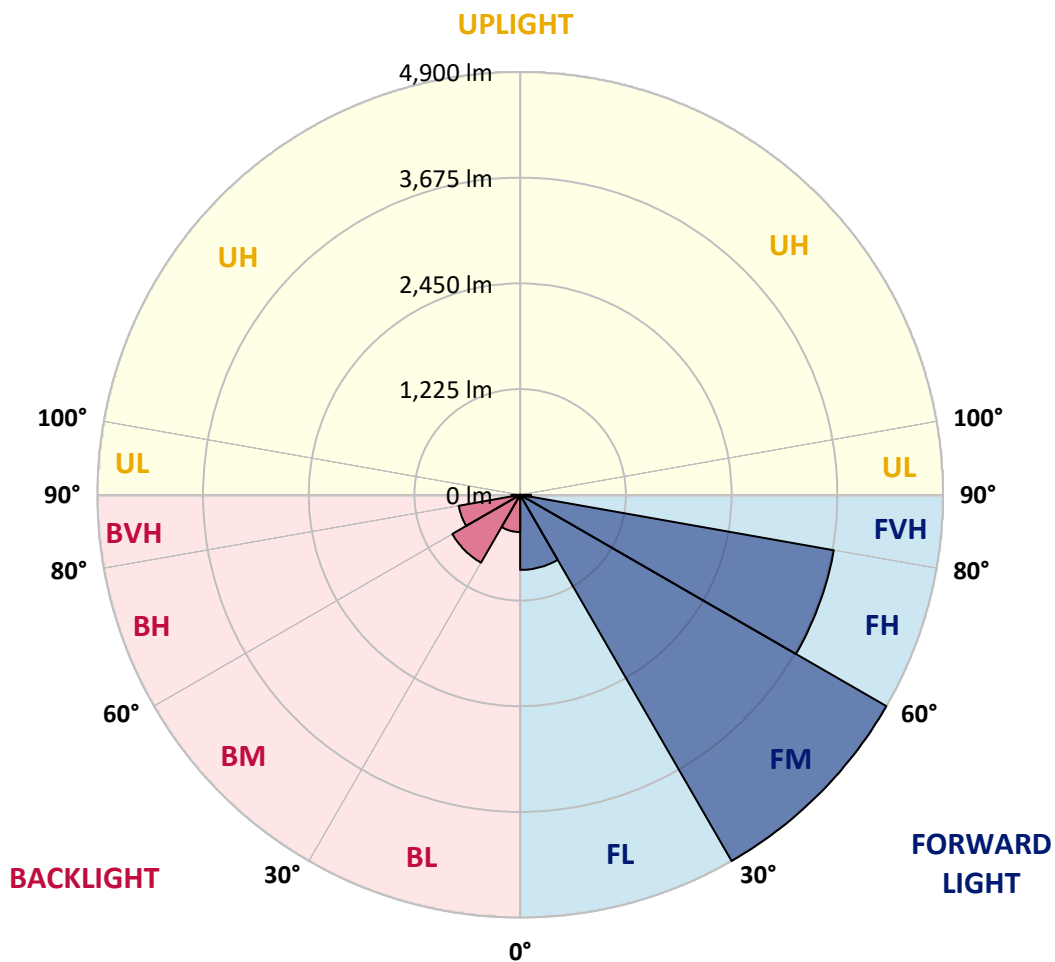
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.6	7.4			
FM (30°-60°)	4900.2	41.7			
FH (60°-80°)	3690.7	31.4			G2/5000
FVH (80°-90°)	123.8	1.1			G2/225
BL (0°-30°)	431.7	3.7	B1/500		
BM (30°-60°)	907.8	7.7	B1/1000		
BH (60°-80°)	722.8	6.2	B2/1000		G2/1000
BVH (80°-90°)	101.4	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





REPORT NUMBER: P192151

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1785.6	1775.1	1776.9	1774.0	1765.3	1750.3	1734.1	1704.6	1673.9	1657.7	1645.0
5°	1934.8	1931.9	1927.8	1918.6	1896.6	1865.4	1826.6	1774.6	1718.5	1689.0	1660.6
7.5°	2046.4	2044.7	2039.5	2033.7	2012.3	1974.7	1916.3	1842.2	1760.7	1720.2	1676.2
10°	2055.7	2058.6	2062.6	2078.2	2081.1	2060.9	2001.3	1911.7	1804.6	1752.6	1696.5
12.5°	1977.0	1983.4	1999.0	2038.9	2081.1	2106.0	2075.3	1984.5	1856.1	1793.1	1721.9
15°	1872.9	1876.4	1895.5	1950.4	2026.2	2103.1	2132.0	2064.9	1922.6	1845.1	1760.1
17.5°	1828.4	1830.1	1843.4	1879.8	1950.4	2060.3	2163.8	2152.3	2004.2	1909.9	1807.0
20°	1805.8	1809.9	1828.9	1864.8	1909.3	2005.4	2168.5	2246.6	2101.4	1990.9	1866.0
22.5°	1870.0	1868.3	1875.2	1893.1	1930.7	1988.6	2165.0	2343.7	2225.1	2095.0	1942.9
25°	2019.8	2026.2	2014.0	1993.8	2005.9	2046.4	2183.5	2449.0	2380.2	2228.6	2043.5
27.5°	2233.2	2226.9	2209.0	2161.5	2136.7	2154.0	2244.8	2562.4	2572.8	2404.5	2176.6
30°	2446.1	2440.9	2423.5	2365.7	2314.8	2300.3	2364.0	2692.5	2802.4	2615.6	2339.7
32.5°	2667.1	2661.3	2645.1	2587.2	2525.9	2492.4	2533.4	2842.9	3073.1	2867.8	2531.7
35°	2939.5	2928.5	2894.4	2814.0	2753.8	2727.8	2746.9	3032.0	3385.4	3166.2	2764.8
37.5°	3195.7	3212.5	3177.8	3066.7	2988.7	2979.4	3000.8	3262.8	3722.1	3500.0	3032.6
40°	3453.1	3456.0	3424.8	3334.0	3253.6	3238.5	3292.3	3542.8	4119.4	3899.1	3358.3
42.5°	3719.2	3725.0	3672.3	3588.5	3529.5	3532.4	3593.7	3870.7	4575.2	4369.3	3733.1
45°	4034.4	4043.1	3985.3	3875.4	3821.6	3929.7	3904.3	4238.6	5075.0	4903.8	4163.4
47.5°	4364.1	4377.4	4333.5	4230.5	4163.4	4312.1	4214.9	4646.4	5612.9	5477.0	4636.0
50°	4544.0	4563.1	4605.9	4598.4	4583.9	4559.0	4561.4	5083.7	6167.6	6073.9	5121.8
52.5°	4447.4	4446.8	4603.0	4792.7	4995.2	5010.2	4983.6	5544.7	6685.9	6657.5	5579.4
55°	4005.5	4035.6	4272.1	4639.4	5192.4	5537.7	5616.4	6072.7	7194.9	7227.8	6043.8
57.5°	3269.8	3294.6	3613.9	4125.8	4926.3	5851.2	6516.4	6840.3	7764.0	7917.9	6662.1
60°	2217.6	2247.7	2586.1	3200.9	4210.3	5676.5	7373.0	8210.0	8445.4	8795.3	7529.8
62.5°	1303.2	1330.3	1606.2	2019.2	2964.4	4865.0	7749.0	10158.6	9527.6	10119.3	8853.2
65°	897.1	915.6	1049.8	1256.9	1703.4	3276.7	7282.8	11504.0	11192.8	11759.7	10387.7
67.5°	721.9	719.5	826.0	967.1	1096.7	1689.5	5507.1	11351.9	12657.4	12894.0	11184.2
70°	594.6	592.3	664.6	781.4	876.3	951.5	2999.6	9579.7	12358.9	12454.9	10450.7
72.5°	497.4	499.7	546.0	632.8	719.0	716.7	1318.2	6739.1	9722.5	10386.5	8330.9
75°	419.9	421.1	451.7	513.1	583.6	577.3	714.9	3650.9	5651.7	6113.8	4618.0
77.5°	357.5	358.6	378.3	412.4	462.7	460.4	521.7	1577.3	2357.6	2328.7	1579.6
80°	318.7	318.7	328.0	334.3	362.1	351.7	387.0	757.7	996.6	920.3	630.5
82.5°	249.9	251.0	307.7	305.4	285.2	271.9	271.9	446.5	528.1	488.2	369.0
85°	140.6	140.0	198.4	239.5	251.0	191.5	189.7	249.9	287.5	253.3	178.7
87.5°	60.2	61.3	92.0	106.4	142.3	119.2	117.4	129.0	146.3	126.7	82.7
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: P192151

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7050-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1632.9	1617.8	1584.8	1543.8	1506.8	1482.5	1460.5	1428.7	1430.4	1408.4	1392.2
5°	1631.7	1600.5	1524.1	1433.3	1346.0	1282.9	1235.5	1192.7	1182.3	1162.0	1149.9
7.5°	1632.9	1582.0	1453.5	1308.4	1200.2	1120.4	1079.9	1057.3	1052.1	1045.2	1045.8
10°	1636.9	1565.2	1376.0	1191.5	1078.2	1025.5	1015.7	1022.6	1030.7	1033.0	1033.6
12.5°	1646.2	1550.1	1291.0	1087.4	1001.8	985.6	1002.4	1026.1	1041.7	1049.2	1048.7
15°	1667.0	1538.6	1209.5	1005.9	959.6	968.3	999.5	1033.0	1055.6	1066.0	1066.6
17.5°	1689.5	1521.8	1125.6	943.4	928.4	950.3	989.1	1028.4	1056.2	1067.7	1070.1
20°	1719.0	1501.0	1037.7	896.5	898.9	923.7	960.2	999.5	1030.2	1040.0	1044.6
22.5°	1757.8	1478.4	960.7	858.4	865.3	884.4	912.7	946.9	973.5	978.1	982.1
25°	1809.9	1454.1	899.4	823.7	826.6	837.5	856.6	876.9	895.4	890.2	894.2
27.5°	1879.8	1433.3	853.7	791.8	786.6	789.0	798.8	805.1	815.0	800.5	802.3
30°	1962.0	1410.7	818.5	764.1	749.6	745.6	747.9	751.4	758.9	739.2	736.3
32.5°	2057.4	1383.6	785.5	739.8	719.5	711.4	712.6	721.9	750.8	738.6	732.3
35°	2168.5	1352.9	750.8	713.2	699.3	687.7	686.6	715.5	801.7	794.2	788.4
37.5°	2298.6	1322.2	716.1	683.1	684.3	671.5	667.5	700.5	811.5	782.0	778.0
40°	2464.0	1306.1	686.6	651.3	665.8	664.0	655.9	672.7	746.7	692.9	686.0
42.5°	2668.8	1308.4	664.6	617.2	643.8	662.3	649.6	650.1	676.7	636.3	629.9
45°	2921.6	1335.6	649.0	590.0	618.9	660.5	647.2	638.0	640.3	618.9	615.4
47.5°	3216.5	1391.7	638.0	567.4	595.2	654.2	646.7	634.5	629.3	617.7	614.9
50°	3544.5	1473.2	629.9	546.0	573.8	643.8	647.2	631.0	625.3	620.6	618.9
52.5°	3866.7	1566.3	617.7	527.5	557.0	631.0	649.0	627.6	621.2	617.7	616.0
55°	4225.9	1682.6	599.2	511.9	543.1	614.9	649.0	622.4	615.4	616.0	615.4
57.5°	4711.2	1870.6	577.3	498.6	526.4	595.2	638.0	616.6	607.9	608.5	609.1
60°	5469.5	2202.0	550.6	485.3	505.5	572.0	622.9	603.9	595.2	597.5	598.1
62.5°	6584.6	2688.5	515.9	465.6	483.6	547.2	602.1	587.7	579.0	584.8	584.8
65°	7743.8	3117.6	473.1	440.7	460.4	520.0	576.1	567.4	558.7	572.0	571.5
67.5°	8055.5	3021.6	430.3	413.6	437.3	489.9	544.9	540.2	535.6	558.7	557.6
70°	7156.1	2425.9	391.0	385.8	411.8	457.5	511.3	511.3	508.4	525.8	521.7
72.5°	5452.1	1720.2	353.4	356.3	382.9	422.2	474.9	478.9	474.3	483.0	479.5
75°	2918.7	984.5	315.8	323.9	347.0	386.4	434.4	438.4	435.5	435.0	436.7
77.5°	970.0	481.2	276.5	289.2	309.5	349.4	392.2	398.5	391.6	390.4	389.8
80°	432.1	302.5	233.1	249.9	267.8	307.1	347.6	352.8	345.3	355.7	342.4
82.5°	277.6	199.0	186.8	205.3	222.7	264.9	303.1	304.2	297.3	345.3	294.4
85°	134.8	123.2	140.6	157.3	172.4	208.2	251.0	251.6	234.3	213.4	205.9
87.5°	67.1	71.7	93.7	108.7	116.3	142.9	182.8	179.3	171.8	156.2	144.0
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)