

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: P191080

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9860.2 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

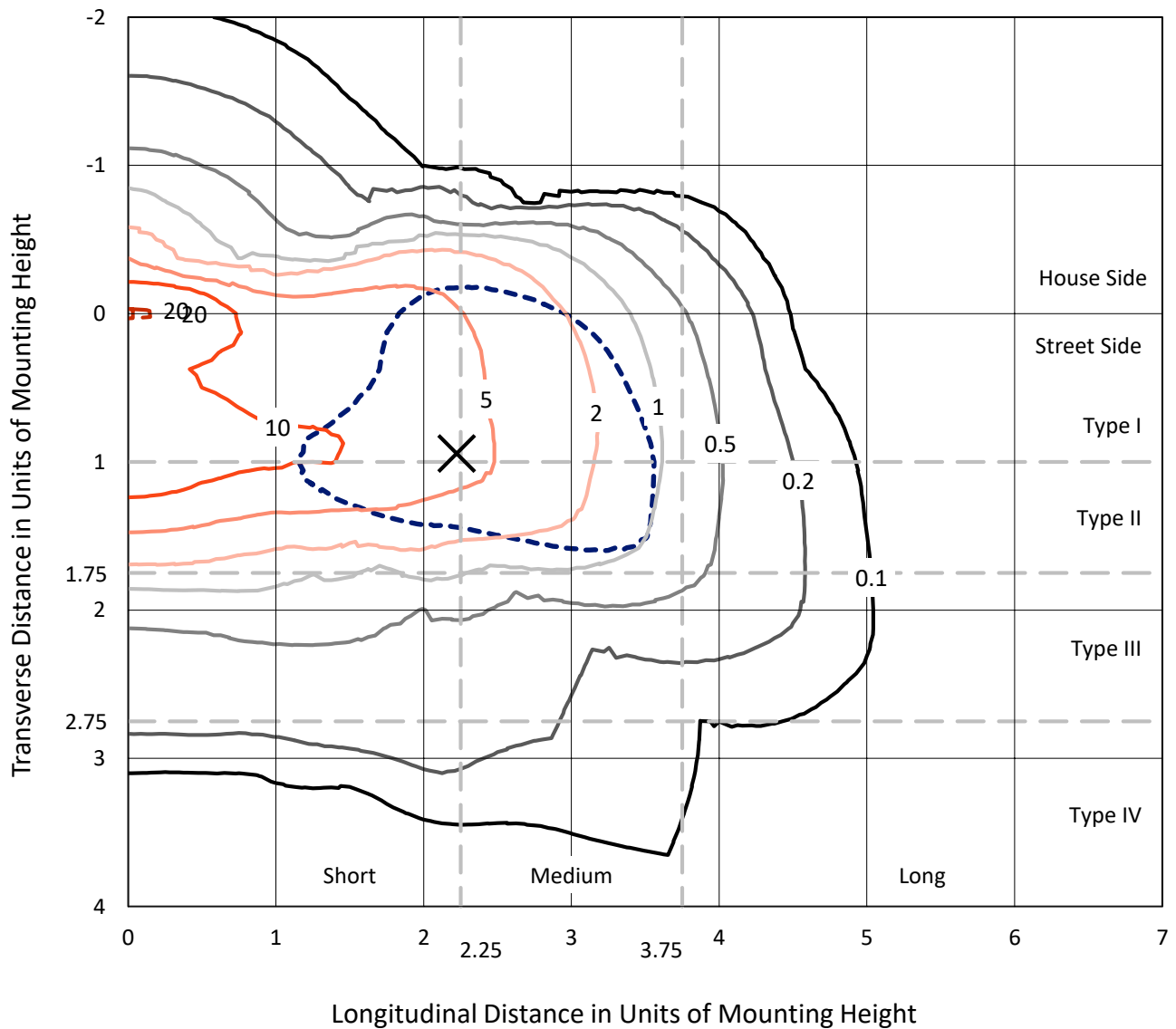


REPORT NUMBER: P191080

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-800

Iso-Footcandle Lines of Horizontal Illumination

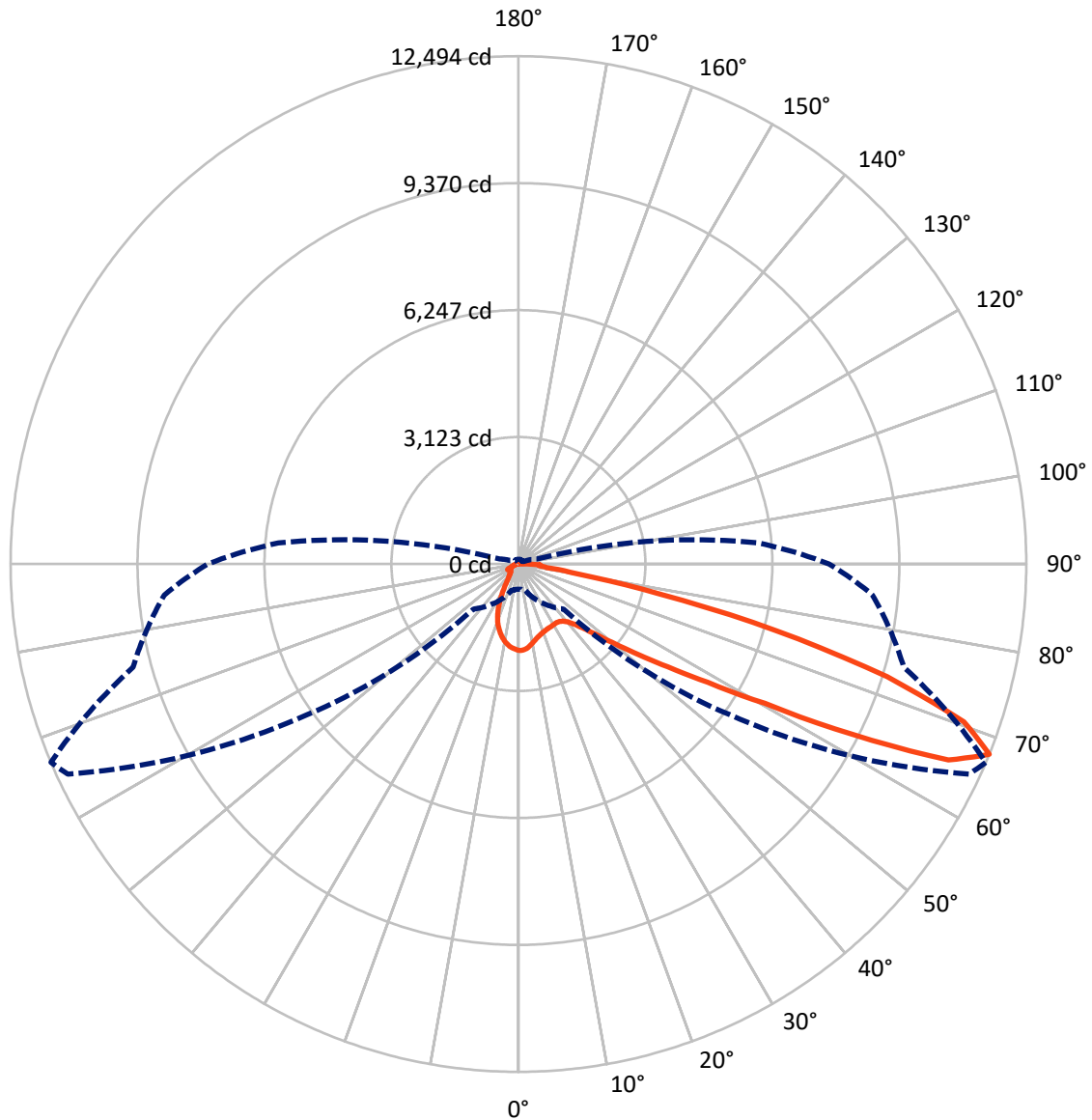
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191080
CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-800

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.7	0.0	1633.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	8226.5	0.0	8226.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	9860.2	0.0	9860.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.8
10°-20°	419.8	4.3
20°-30°	569.1	5.8
30°-40°	809.1	8.2
40°-50°	1353.6	13.7
50°-60°	2141.3	21.7
60°-70°	2727.9	27.7
70°-80°	1428.8	14.5
80°-90°	229.2	2.3
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°	9860.2	100.0
0°-180°	9860.2	100.0



REPORT NUMBER: P191080

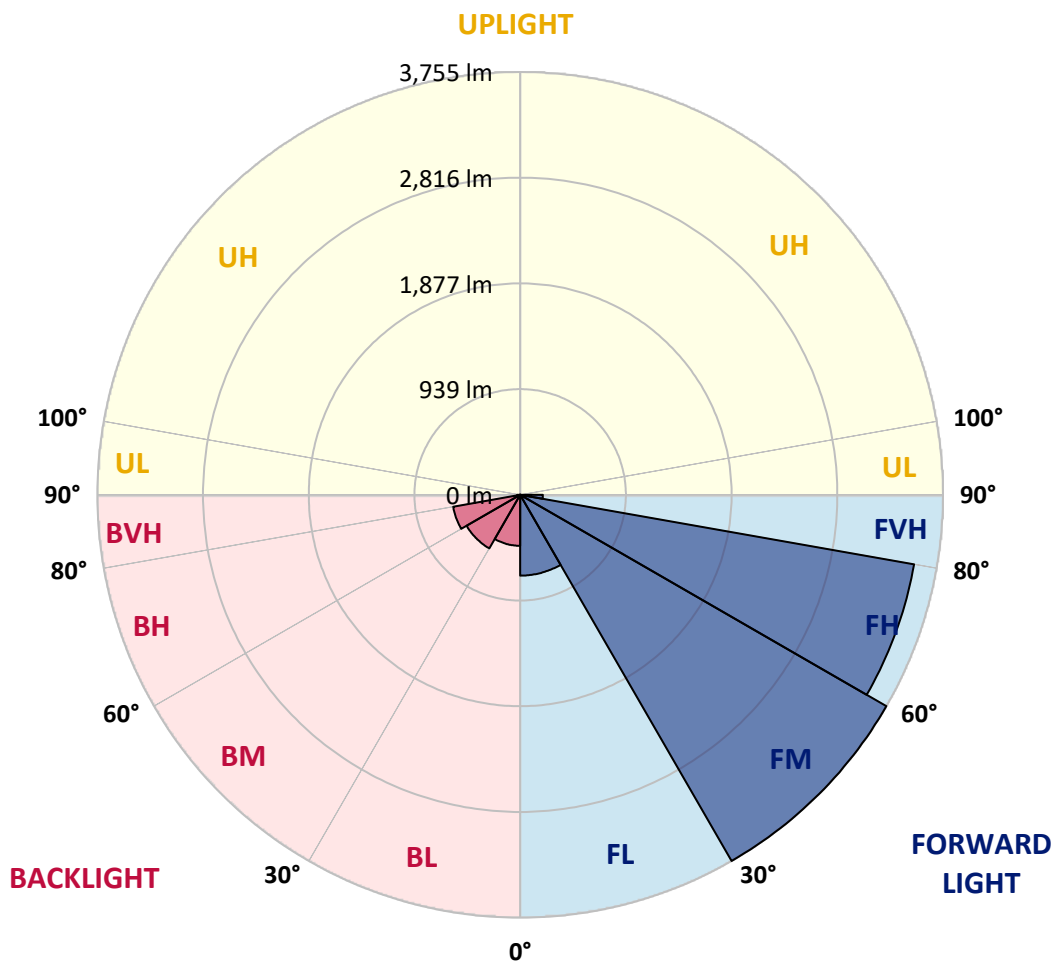
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.6	7.3			
FM	(30°-60°)	3755.0	38.1			
FH	(60°-80°)	3552.4	36.0			G2/5000
FVH	(80°-90°)	201.5	2.0			G2/225
BL	(0°-30°)	452.8	4.6	B1/500		
BM	(30°-60°)	549.0	5.6	B1/1000		
BH	(60°-80°)	604.3	6.1	B2/1000		G2/1000
BVH	(80°-90°)	27.7	0.3			G1/100
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 Short





REPORT NUMBER: P191080

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8
2.5°	2039.3	2042.7	2053.4	2060.2	2090.8	2104.0	2113.2	2122.4	2124.0	2128.2	2124.0
5°	1825.4	1832.6	1852.6	1875.0	1934.3	1980.9	2030.0	2081.1	2090.4	2123.4	2132.6
7.5°	1659.5	1657.6	1674.2	1700.9	1761.6	1826.4	1912.4	2014.0	2033.9	2108.3	2144.3
10°	1538.5	1537.0	1554.5	1582.2	1640.1	1701.4	1798.7	1937.7	1965.9	2084.6	2155.6
12.5°	1449.0	1449.5	1467.0	1497.6	1556.4	1618.2	1716.9	1863.8	1899.7	2056.8	2167.2
15°	1389.7	1393.6	1407.7	1440.2	1497.6	1559.4	1656.2	1808.4	1848.7	2035.0	2180.3
17.5°	1369.7	1376.1	1380.9	1404.7	1453.8	1515.6	1610.4	1767.5	1810.3	2019.8	2192.0
20°	1388.2	1395.5	1386.3	1394.6	1425.7	1480.1	1574.4	1735.4	1779.1	2002.8	2193.4
22.5°	1467.5	1474.3	1447.1	1423.2	1421.3	1454.3	1544.8	1710.1	1755.4	1990.2	2193.9
25°	1607.1	1611.5	1565.7	1510.3	1456.3	1445.1	1523.9	1692.6	1740.8	1979.0	2184.7
27.5°	1778.2	1781.6	1729.1	1647.4	1538.9	1467.0	1516.6	1682.4	1732.5	1969.3	2169.2
30°	1986.3	2002.3	1931.8	1828.7	1670.7	1531.7	1531.2	1677.0	1723.3	1952.7	2138.5
32.5°	2199.2	2206.1	2157.5	2053.0	1848.2	1645.4	1572.1	1680.9	1720.8	1932.9	2099.6
35°	2415.2	2423.9	2392.3	2308.2	2090.8	1812.3	1651.8	1703.8	1735.8	1926.0	2072.4
37.5°	2694.8	2706.4	2662.6	2565.5	2386.0	2038.3	1784.5	1761.2	1782.1	1945.4	2064.1
40°	3136.8	3131.4	3003.5	2858.6	2708.9	2327.6	1974.2	1858.4	1870.6	2008.2	2089.4
42.5°	3651.2	3638.0	3417.8	3190.3	3063.8	2677.8	2225.0	2027.2	2024.7	2131.7	2178.4
45°	4061.6	4050.9	3852.5	3571.9	3470.8	3076.4	2549.4	2278.5	2260.5	2327.6	2342.8
47.5°	4283.8	4284.3	4170.1	3941.0	3938.6	3583.1	2966.0	2642.3	2611.1	2642.7	2626.7
50°	4206.0	4216.2	4204.0	4131.1	4365.4	4247.3	3510.2	3149.4	3086.7	3117.7	3056.1
52.5°	3829.6	3842.8	3914.7	4026.5	4544.9	5050.1	4309.6	3779.6	3706.7	3695.4	3626.9
55°	3162.6	3178.6	3325.4	3629.3	4395.6	5589.4	5570.9	4582.8	4466.6	4361.1	4331.9
57.5°	2179.8	2206.6	2442.9	2894.1	3912.8	5752.3	7072.9	5727.9	5491.6	5123.0	5129.9
60°	1228.8	1259.9	1538.5	1948.4	2938.3	5575.3	8215.5	7462.3	6963.5	6015.4	6065.9
62.5°	781.4	815.0	1026.4	1353.7	1763.2	4622.2	8683.8	9873.6	9240.1	7115.2	7164.7
65°	632.6	647.2	746.9	1117.4	1280.3	2784.7	8328.4	11860.0	11623.6	8511.2	8279.8
67.5°	617.6	622.4	673.9	937.9	1227.7	1565.2	6643.0	12231.4	12493.5	9814.8	8744.1
70°	610.2	627.3	759.5	895.2	1175.8	1320.1	3992.1	11213.3	11627.1	10155.7	8126.1
72.5°	296.1	295.1	382.2	809.6	1324.5	1369.2	2051.0	9072.8	9488.1	8798.6	6677.6
75°	238.8	218.3	208.6	296.7	1273.5	1414.0	1307.0	6242.9	6543.4	5899.1	4104.9
77.5°	226.6	202.2	185.3	185.8	538.3	1499.5	1107.1	3455.2	3542.8	2664.6	1124.6
80°	187.7	165.3	153.1	172.6	260.6	1428.1	1197.2	1563.8	1434.9	654.5	374.4
82.5°	130.3	118.7	115.3	144.8	208.6	1017.7	1392.1	840.3	704.6	327.8	231.0
85°	83.2	71.0	78.8	105.5	162.4	469.7	1434.0	655.0	520.8	208.1	130.3
87.5°	38.5	31.1	38.9	58.3	106.0	161.9	1364.4	735.7	536.3	109.9	82.1
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: P191080

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8	2126.8
2.5°	2127.8	2118.5	2111.3	2097.7	2082.6	2068.0	2054.9	2038.3	2033.4	2029.1	2035.9
5°	2134.6	2125.4	2098.6	2056.8	2010.6	1967.3	1924.1	1887.1	1864.2	1851.6	1858.9
7.5°	2144.8	2131.7	2076.3	1999.5	1916.3	1840.4	1762.1	1699.4	1653.2	1631.3	1637.6
10°	2154.0	2128.8	2038.3	1923.0	1801.5	1688.7	1565.2	1463.1	1387.2	1347.3	1357.1
12.5°	2157.9	2117.6	1985.3	1827.8	1661.0	1495.7	1313.9	1161.2	1052.2	1012.3	1004.1
15°	2161.8	2104.9	1926.9	1719.4	1491.3	1257.4	1002.6	819.8	729.4	709.4	705.0
17.5°	2162.8	2083.0	1860.8	1601.6	1292.4	974.0	685.6	569.4	569.9	602.0	605.9
20°	2152.6	2050.5	1780.7	1455.4	1054.2	673.4	470.7	450.7	524.2	604.4	614.1
22.5°	2129.3	2007.2	1689.7	1284.6	781.4	443.4	364.2	386.1	480.9	579.1	590.3
25°	2099.6	1954.7	1582.2	1086.8	517.4	317.0	305.4	332.2	396.3	462.0	468.2
27.5°	2059.2	1892.5	1461.7	860.2	336.0	261.2	268.9	286.8	313.1	342.3	345.2
30°	2007.2	1818.1	1332.8	627.3	253.8	234.9	246.0	255.7	267.0	283.5	284.9
32.5°	1947.4	1746.6	1200.5	433.2	225.2	221.3	230.0	234.9	243.6	253.8	254.8
35°	1897.4	1678.6	1063.5	306.4	213.0	211.0	216.9	218.8	227.1	238.2	239.3
37.5°	1868.6	1623.1	921.9	247.0	204.7	201.8	205.2	205.2	216.9	233.4	235.8
40°	1870.6	1592.4	780.4	223.2	197.9	194.1	194.5	194.5	209.6	227.6	229.0
42.5°	1923.6	1600.2	655.0	213.9	192.5	188.2	185.8	187.2	199.9	211.5	212.5
45°	2048.0	1655.1	537.3	208.1	187.2	185.8	180.3	179.9	184.7	190.2	190.2
47.5°	2252.2	1763.6	457.6	204.2	182.8	182.4	176.0	169.7	169.2	171.1	171.1
50°	2584.4	1950.4	404.1	199.9	179.9	176.0	168.7	159.0	155.6	157.0	157.0
52.5°	3082.3	2283.4	383.6	194.1	173.6	167.3	159.0	149.2	146.4	146.9	146.9
55°	3735.3	2794.9	380.7	187.2	166.7	156.6	149.8	142.5	139.0	140.0	140.0
57.5°	4533.2	3502.4	432.7	176.5	157.5	145.9	142.0	137.1	134.7	136.2	135.6
60°	5503.3	4428.3	641.8	165.3	148.3	136.2	136.2	132.3	130.3	131.8	131.2
62.5°	6620.6	5491.6	902.4	157.0	138.6	128.4	130.3	128.4	126.4	127.4	126.9
65°	7611.7	6184.6	845.1	150.8	128.9	121.1	124.5	123.5	122.0	123.1	122.5
67.5°	7640.3	5927.8	474.5	143.9	119.6	113.8	118.7	118.2	117.2	118.2	117.6
70°	6818.6	5005.4	267.4	131.2	109.9	105.1	111.8	111.4	110.4	112.3	111.8
72.5°	5463.0	3632.2	195.5	115.7	100.1	95.7	103.5	103.1	103.1	106.0	104.5
75°	3143.5	1869.1	156.1	99.2	89.9	86.5	93.4	93.8	94.8	98.7	95.7
77.5°	896.1	582.5	127.4	84.1	77.3	75.9	82.7	83.7	84.1	88.5	84.6
80°	333.1	268.4	105.1	70.5	63.2	63.7	70.0	71.5	71.9	76.3	71.5
82.5°	212.5	177.0	85.1	54.4	49.6	49.1	56.9	58.8	58.8	59.3	56.4
85°	124.0	106.0	64.1	39.4	35.0	33.6	42.4	45.7	44.3	43.3	41.3
87.5°	83.2	72.9	39.4	21.9	18.9	18.0	24.8	27.2	26.3	24.8	23.3
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)