

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: P193611

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193611
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-03-LED-E1-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 9571 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-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

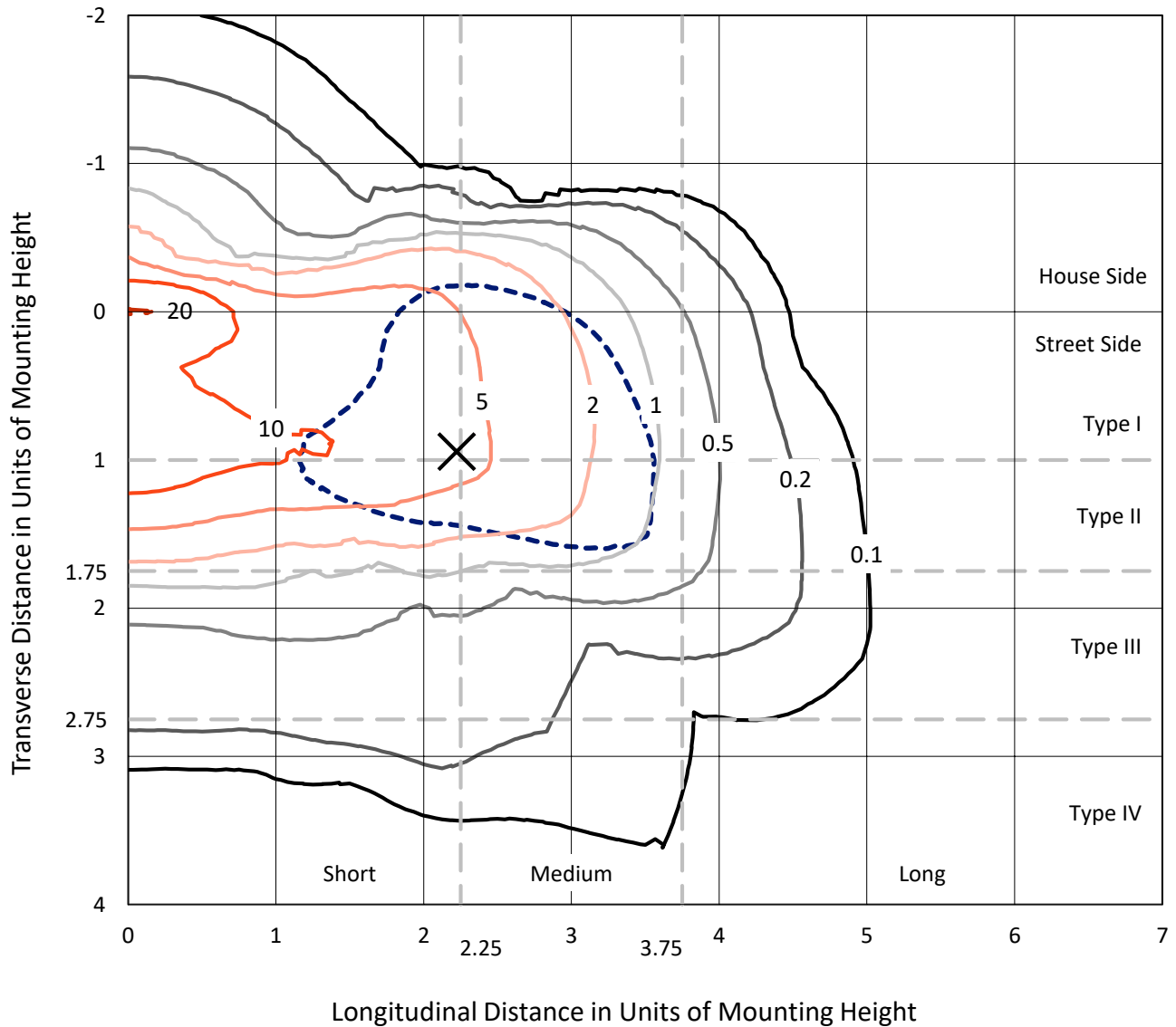


REPORT NUMBER: P193611

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-8030-600

Iso-Footcandle Lines of Horizontal Illumination

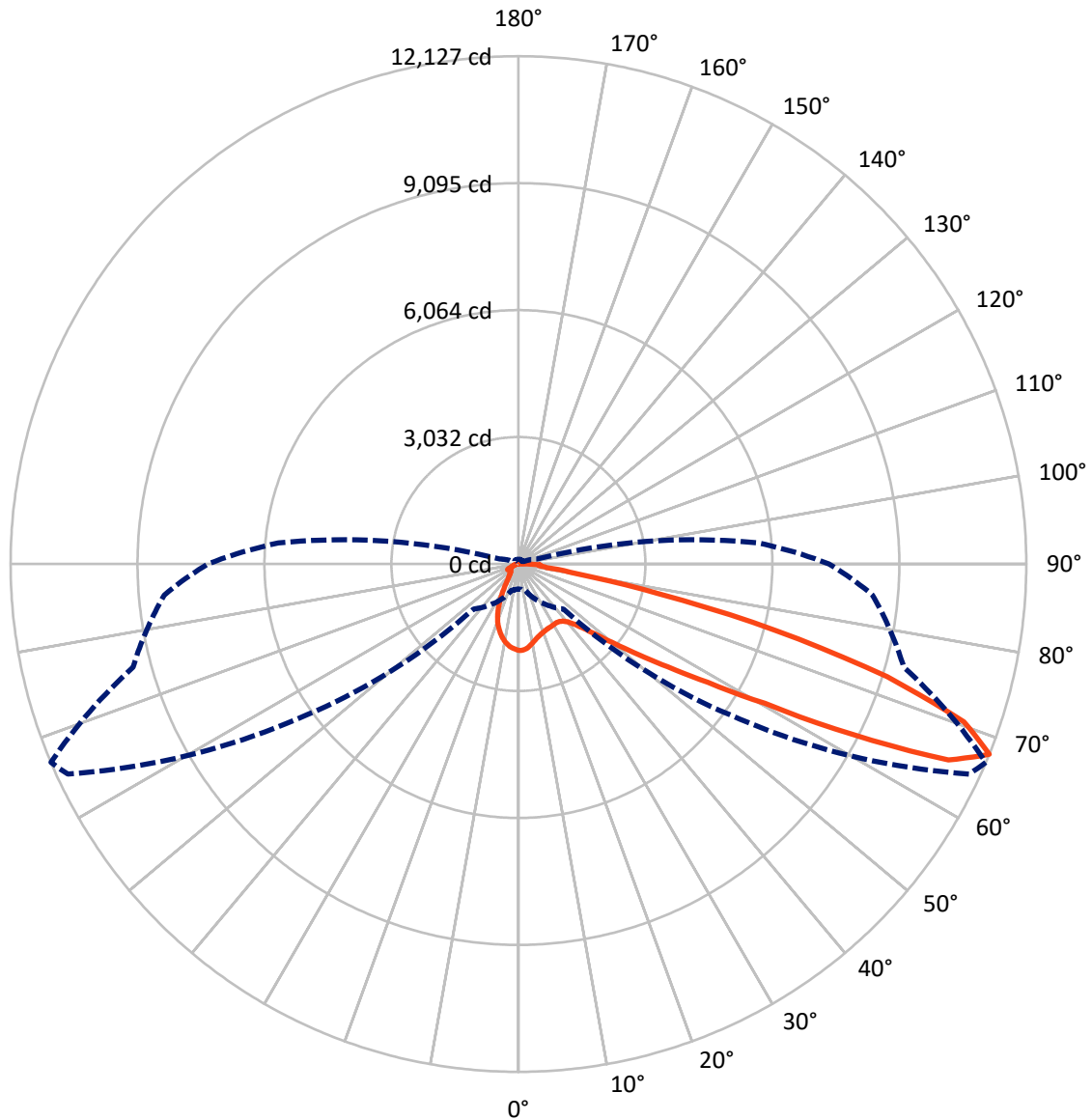
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193611
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193611

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1585.8	0.0	1585.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	7985.2	0.0	7985.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	9571.0	0.0	9571.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.8
10°-20°	407.5	4.3
20°-30°	552.4	5.8
30°-40°	785.3	8.2
40°-50°	1313.9	13.7
50°-60°	2078.5	21.7
60°-70°	2647.8	27.7
70°-80°	1386.9	14.5
80°-90°	222.4	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°	9571.0	100.0
0°-180°	9571.0	100.0



REPORT NUMBER: P193611

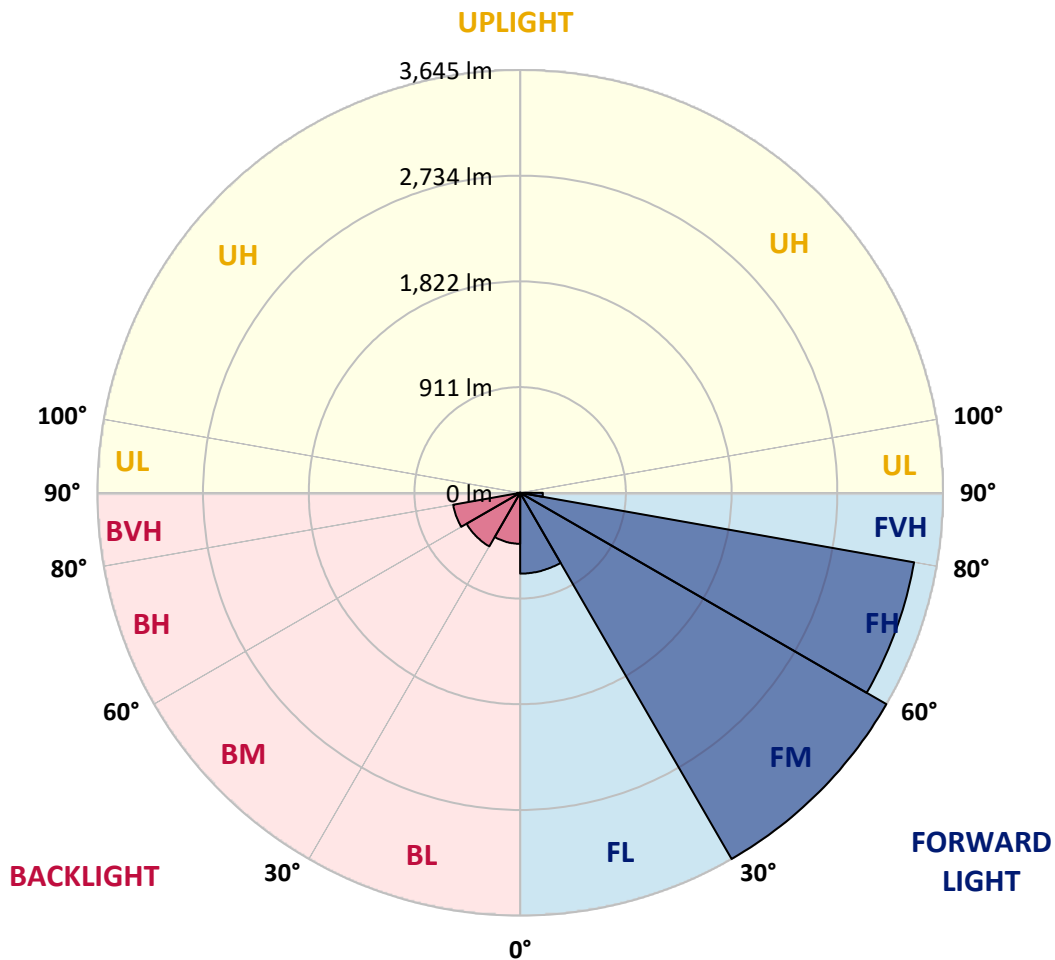
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.5	7.3			
FM	(30°-60°)	3644.8	38.1			
FH	(60°-80°)	3448.2	36.0			G2/5000
FVH	(80°-90°)	195.6	2.0			G2/225
BL	(0°-30°)	439.5	4.6	B1/500		
BM	(30°-60°)	532.9	5.6	B1/1000		
BH	(60°-80°)	586.5	6.1	B2/1000		G2/1000
BVH	(80°-90°)	26.9	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: P193611

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4
2.5°	1979.5	1982.8	1993.2	1999.8	2029.5	2042.3	2051.2	2060.2	2061.6	2065.9	2061.6
5°	1771.8	1778.9	1798.2	1820.0	1877.5	1922.8	1970.5	2020.1	2029.0	2061.1	2070.1
7.5°	1610.9	1609.0	1625.0	1651.0	1710.0	1772.8	1856.3	1954.9	1974.3	2046.5	2081.4
10°	1493.3	1491.9	1508.9	1535.8	1592.0	1651.5	1745.9	1880.8	1908.2	2023.4	2092.3
12.5°	1406.5	1407.0	1424.0	1453.7	1510.8	1570.7	1666.6	1809.1	1844.0	1996.5	2103.6
15°	1348.9	1352.7	1366.4	1398.0	1453.7	1513.6	1607.6	1755.3	1794.5	1975.2	2116.4
17.5°	1329.6	1335.7	1340.4	1363.6	1411.2	1471.2	1563.2	1715.6	1757.2	1960.6	2127.7
20°	1347.5	1354.6	1345.6	1353.6	1383.8	1436.7	1528.3	1684.5	1727.0	1944.1	2129.1
22.5°	1424.4	1431.0	1404.6	1381.5	1379.6	1411.7	1499.5	1660.0	1703.8	1931.8	2129.6
25°	1559.9	1564.1	1519.8	1466.0	1413.6	1402.7	1479.2	1643.0	1689.7	1921.0	2120.6
27.5°	1726.0	1729.3	1678.4	1599.1	1493.8	1424.0	1472.1	1633.1	1681.7	1911.5	2105.5
30°	1928.0	1943.6	1875.2	1775.1	1621.7	1486.7	1486.3	1627.9	1672.7	1895.5	2075.8
32.5°	2134.8	2141.4	2094.2	1992.7	1794.0	1597.2	1525.9	1631.6	1670.3	1876.1	2038.0
35°	2344.3	2352.8	2322.1	2240.5	2029.5	1759.1	1603.3	1653.8	1685.0	1869.5	2011.6
37.5°	2615.7	2627.0	2584.6	2490.2	2316.0	1978.5	1732.2	1709.5	1729.8	1888.4	2003.6
40°	3044.7	3039.6	2915.4	2774.8	2629.4	2259.4	1916.2	1803.9	1815.7	1949.3	2028.1
42.5°	3544.1	3531.4	3317.5	3096.7	2973.9	2599.2	2159.8	1967.7	1965.3	2069.2	2114.5
45°	3942.5	3932.1	3739.5	3467.2	3369.0	2986.2	2474.6	2211.7	2194.2	2259.4	2274.0
47.5°	4158.1	4158.6	4047.7	3825.4	3823.0	3478.0	2879.1	2564.7	2534.5	2565.2	2549.6
50°	4082.6	4092.5	4080.7	4009.9	4237.4	4122.7	3407.2	3057.0	2996.1	3026.3	2966.4
52.5°	3717.3	3730.1	3799.9	3908.5	4411.6	4902.0	4183.2	3668.7	3597.9	3587.0	3520.5
55°	3069.8	3085.3	3227.9	3522.9	4266.7	5425.4	5407.5	4448.4	4335.6	4233.2	4204.9
57.5°	2115.9	2141.8	2371.2	2809.2	3798.0	5583.5	6865.4	5559.9	5330.5	4972.8	4979.4
60°	1192.7	1222.9	1493.3	1891.2	2852.2	5411.7	7974.6	7243.5	6759.2	5838.9	5888.0
62.5°	758.5	791.0	996.4	1314.0	1711.4	4486.6	8429.1	9584.0	8969.0	6906.5	6954.6
65°	614.0	628.2	725.0	1084.6	1242.7	2703.0	8084.1	11512.1	11282.7	8261.5	8036.9
67.5°	599.4	604.1	654.2	910.4	1191.7	1519.3	6448.2	11872.7	12127.1	9526.9	8487.6
70°	592.3	608.9	737.2	868.9	1141.2	1281.4	3875.0	10884.3	11286.0	9857.8	7887.7
72.5°	287.4	286.5	371.0	785.8	1285.7	1329.1	1990.8	8806.7	9209.7	8540.5	6481.7
75°	231.7	211.9	202.5	287.9	1236.1	1372.5	1268.7	6059.8	6351.4	5726.1	3984.5
77.5°	219.9	196.3	179.8	180.3	522.5	1455.6	1074.7	3353.9	3438.8	2586.5	1091.7
80°	182.2	160.5	148.7	167.6	253.0	1386.2	1162.0	1517.9	1392.8	635.3	363.4
82.5°	126.5	115.2	111.9	140.7	202.5	987.9	1351.3	815.6	683.9	318.1	224.2
85°	80.7	68.9	76.5	102.4	157.6	455.9	1391.9	635.8	505.5	202.0	126.5
87.5°	37.3	30.2	37.8	56.6	102.9	157.2	1324.4	714.1	520.6	106.7	79.8
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: P193611

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4
2.5°	2065.4	2056.4	2049.3	2036.1	2021.5	2007.3	1994.6	1978.5	1973.8	1969.6	1976.2
5°	2072.0	2063.0	2037.1	1996.5	1951.6	1909.6	1867.6	1831.8	1809.6	1797.3	1804.4
7.5°	2081.9	2069.2	2015.4	1940.8	1860.1	1786.4	1710.5	1649.6	1604.7	1583.5	1589.6
10°	2090.9	2066.3	1978.5	1866.7	1748.7	1639.2	1519.3	1420.2	1346.6	1307.9	1317.3
12.5°	2094.6	2055.5	1927.1	1774.2	1612.3	1451.8	1275.3	1127.1	1021.4	982.7	974.6
15°	2098.4	2043.2	1870.5	1668.9	1447.6	1220.5	973.2	795.8	708.0	688.6	684.4
17.5°	2099.4	2022.0	1806.3	1554.7	1254.5	945.4	665.5	552.7	553.2	584.3	588.1
20°	2089.5	1990.3	1728.4	1412.6	1023.3	653.7	456.9	437.5	508.8	586.7	596.1
22.5°	2066.8	1948.3	1640.1	1247.0	758.5	430.4	353.5	374.8	466.8	562.1	573.0
25°	2038.0	1897.4	1535.8	1054.9	502.2	307.7	296.4	322.4	384.7	448.4	454.5
27.5°	1998.8	1836.9	1418.8	834.9	326.1	253.5	261.0	278.5	304.0	332.3	335.1
30°	1948.3	1764.7	1293.7	608.9	246.4	228.0	238.8	248.3	259.1	275.2	276.6
32.5°	1890.3	1695.4	1165.3	420.5	218.5	214.8	223.2	228.0	236.5	246.4	247.3
35°	1841.7	1629.3	1032.2	297.3	206.7	204.8	210.5	212.4	220.4	231.3	232.2
37.5°	1813.8	1575.5	894.9	239.8	198.7	195.9	199.2	199.2	210.5	226.6	228.9
40°	1815.7	1545.7	757.5	216.6	192.1	188.3	188.8	188.8	203.4	220.9	222.3
42.5°	1867.2	1553.3	635.8	207.7	186.9	182.7	180.3	181.7	194.0	205.3	206.3
45°	1988.0	1606.6	521.5	202.0	181.7	180.3	175.1	174.6	179.4	184.5	184.5
47.5°	2186.2	1711.9	444.1	198.2	177.5	177.0	170.9	164.7	164.2	166.1	166.1
50°	2508.6	1893.1	392.2	194.0	174.6	170.9	163.8	154.3	151.0	152.4	152.4
52.5°	2991.9	2216.4	372.4	188.3	168.5	162.4	154.3	144.9	142.1	142.5	142.5
55°	3625.8	2712.9	369.6	181.7	161.9	152.0	145.4	138.3	135.0	135.9	135.9
57.5°	4400.3	3399.7	420.1	171.3	152.9	141.6	137.8	133.1	130.7	132.2	131.7
60°	5341.9	4298.3	623.0	160.5	144.0	132.2	132.2	128.4	126.5	127.9	127.4
62.5°	6426.5	5330.5	876.0	152.4	134.5	124.6	126.5	124.6	122.7	123.7	123.2
65°	7388.4	6003.1	820.3	146.3	125.1	117.5	120.8	119.9	118.5	119.4	118.9
67.5°	7416.2	5753.9	460.7	139.7	116.1	110.4	115.2	114.7	113.7	114.7	114.2
70°	6618.6	4858.6	259.6	127.4	106.7	101.9	108.6	108.1	107.1	109.0	108.6
72.5°	5302.7	3525.7	189.7	112.3	97.2	93.0	100.5	100.1	100.1	102.9	101.5
75°	3051.4	1814.3	151.5	96.3	87.3	84.0	90.6	91.1	92.0	95.8	93.0
77.5°	869.9	565.4	123.7	81.7	75.0	73.6	80.2	81.2	81.7	85.9	82.1
80°	323.3	260.5	101.9	68.4	61.4	61.8	68.0	69.4	69.9	74.1	69.4
82.5°	206.3	171.8	82.6	52.9	48.1	47.7	55.2	57.1	57.1	57.6	54.7
85°	120.4	102.9	62.3	38.2	34.0	32.6	41.1	44.4	43.0	42.0	40.1
87.5°	80.7	70.8	38.2	21.2	18.4	17.5	24.1	26.4	25.5	24.1	22.7
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)