

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: P192890

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7761.8 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

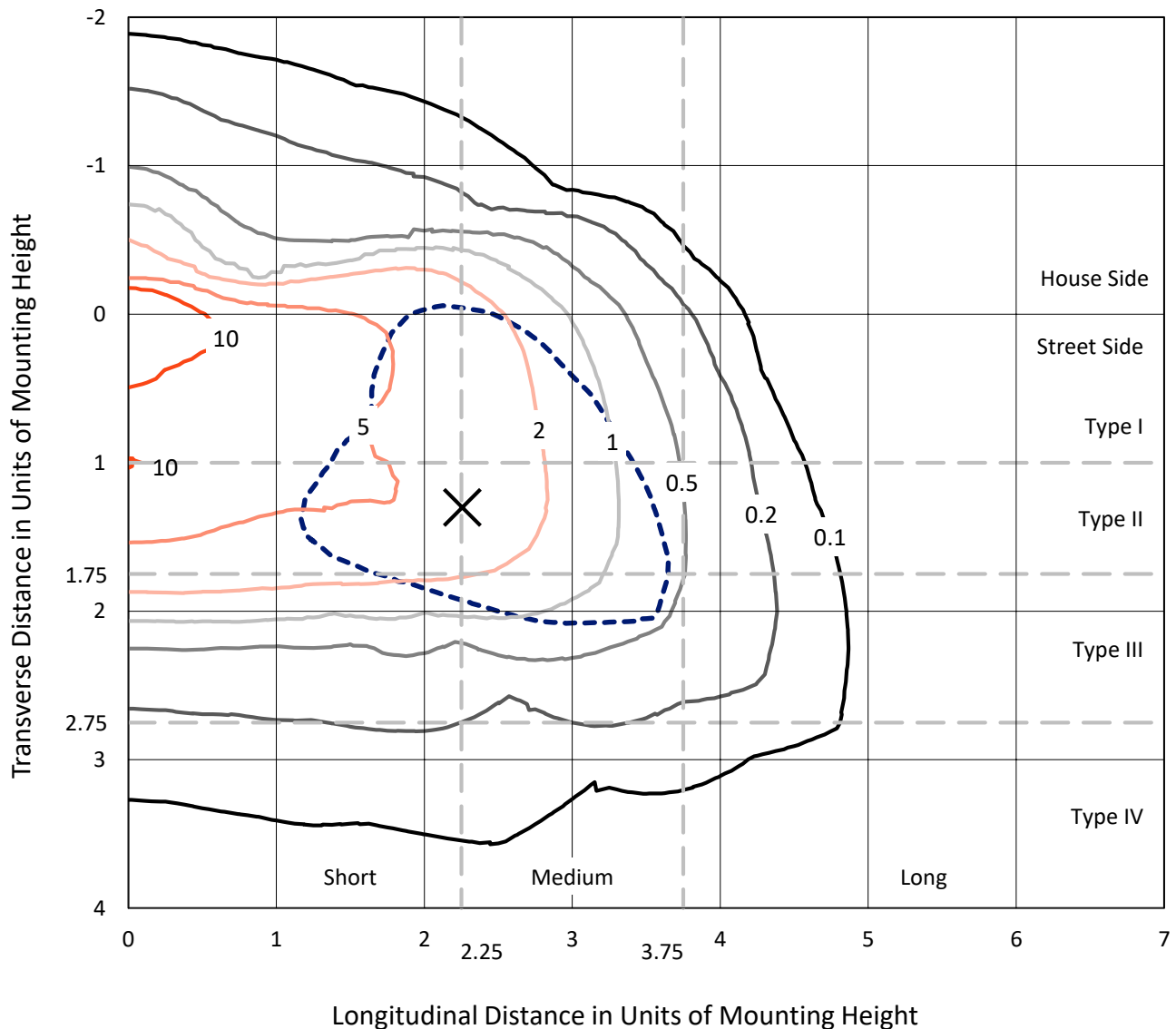


REPORT NUMBER: P192890

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

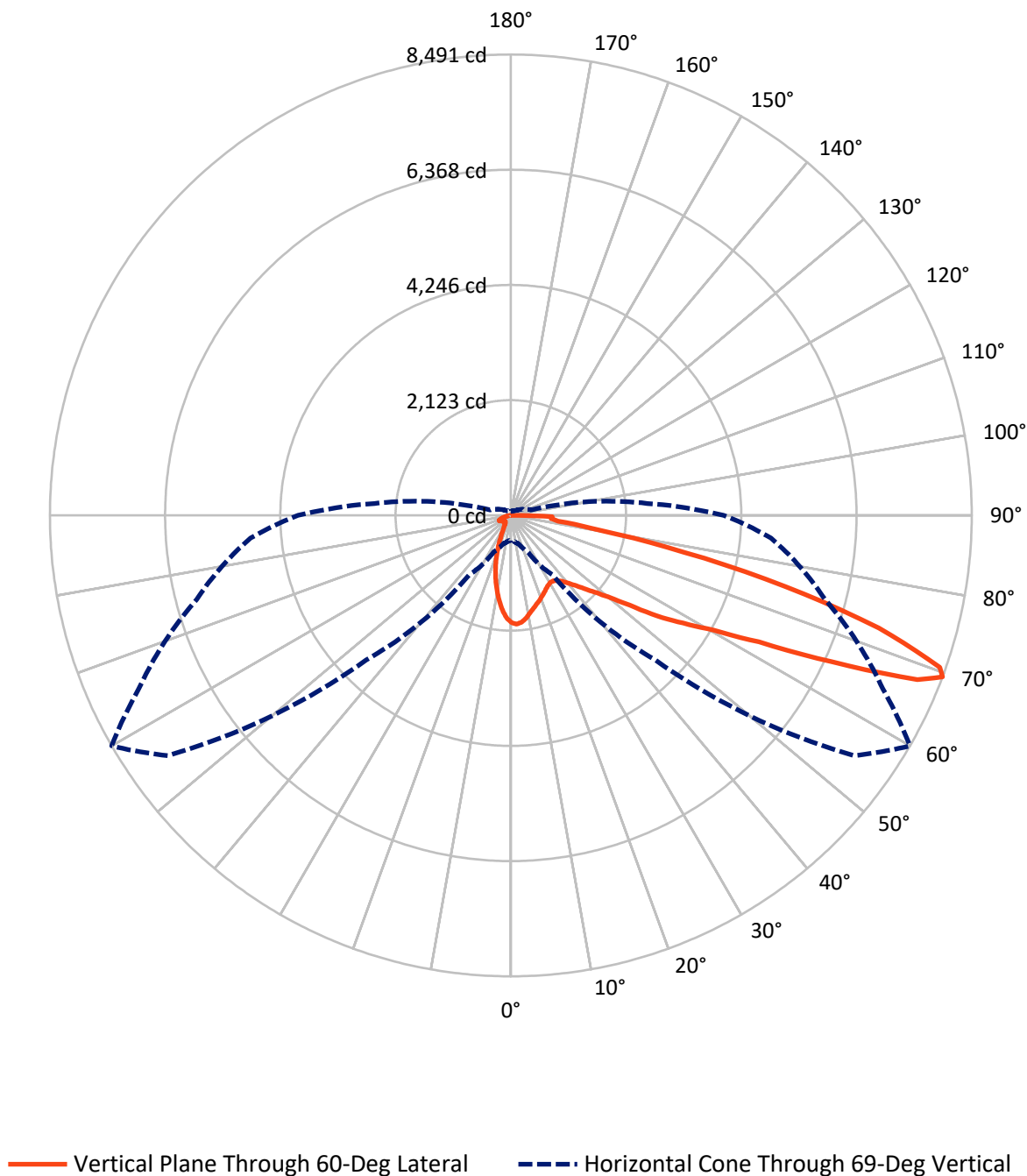


Based on 10 foot mounting height. Maximum calculated value = 19.8 fc
Type III - Medium - Non-Cutoff

REPORT NUMBER: P192890

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P192890

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1104.3	0.0	1104.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6657.5	0.0	6657.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	7761.8	0.0	7761.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.2
10°-20°	356.3	4.6
20°-30°	454.0	5.8
30°-40°	624.1	8.0
40°-50°	1012.7	13.0
50°-60°	1624.1	20.9
60°-70°	2161.6	27.8
70°-80°	1167.1	15.0
80°-90°	194.7	2.5
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°	7761.8	100.0
0°-180°	7761.8	100.0

Coefficient of Utilization



REPORT NUMBER: P192890

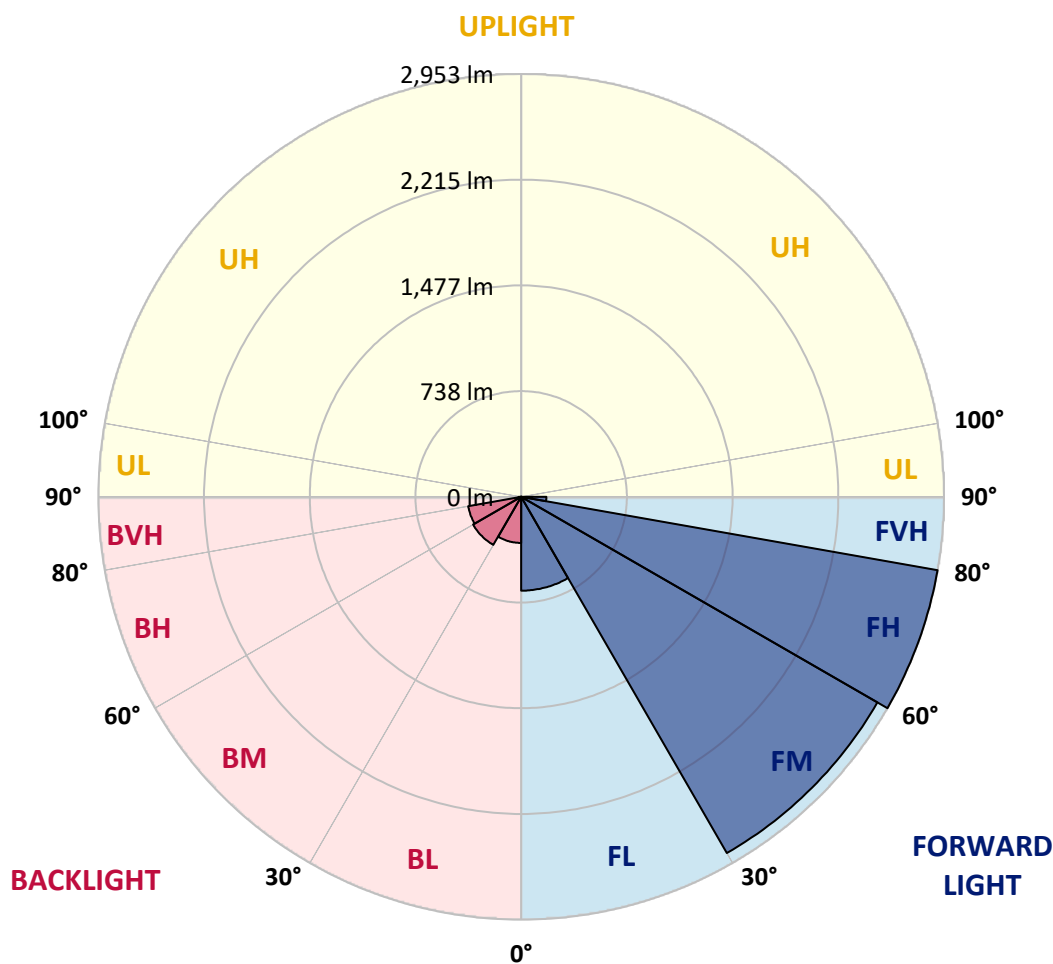
CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.4	8.4			
FM	(30°-60°)	2873.0	37.0			
FH	(60°-80°)	2953.2	38.0			G2/5000
FVH	(80°-90°)	176.0	2.3			G2/225
BL	(0°-30°)	322.1	4.2	B1/500		
BM	(30°-60°)	387.9	5.0	B1/1000		
BH	(60°-80°)	375.4	4.8	B1/500		G1/500
BVH	(80°-90°)	18.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



REPORT NUMBER: P192890

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8
2.5°	2018.3	2022.8	2021.0	2019.7	2023.2	2017.9	2007.1	2003.7	1998.5	1986.2	1965.0
5°	1942.5	1956.1	1955.3	1965.5	1982.3	1986.8	1982.0	1982.7	1972.9	1957.6	1922.8
7.5°	1811.7	1817.3	1820.4	1842.4	1873.2	1898.0	1918.9	1925.7	1921.3	1908.1	1863.1
10°	1676.7	1681.3	1688.4	1714.3	1753.2	1787.4	1827.2	1850.0	1859.7	1857.5	1807.2
12.5°	1560.9	1565.3	1574.8	1604.0	1650.5	1692.5	1750.3	1778.7	1802.0	1815.9	1761.8
15°	1457.0	1466.8	1475.8	1509.5	1561.7	1616.7	1681.9	1718.0	1753.9	1785.1	1721.7
17.5°	1376.0	1385.7	1391.1	1421.8	1477.3	1544.7	1621.3	1663.6	1708.6	1759.6	1681.9
20°	1329.1	1333.6	1331.5	1348.7	1398.5	1470.2	1560.9	1610.1	1664.3	1735.6	1642.2
22.5°	1316.0	1316.5	1308.2	1306.3	1338.5	1398.9	1496.5	1556.0	1622.7	1719.8	1608.1
25°	1347.9	1346.8	1324.3	1305.9	1309.3	1344.6	1434.1	1503.5	1587.9	1716.5	1581.8
27.5°	1418.7	1422.1	1388.8	1354.3	1320.2	1319.1	1386.9	1460.0	1559.3	1731.9	1570.6
30°	1518.1	1523.7	1488.1	1444.3	1380.2	1327.3	1368.6	1434.1	1541.7	1763.8	1568.8
32.5°	1626.9	1632.9	1605.9	1559.7	1475.8	1378.3	1381.2	1436.4	1541.0	1808.4	1581.5
35°	1742.6	1749.5	1735.6	1696.6	1603.3	1472.4	1429.9	1472.9	1565.3	1876.6	1615.6
37.5°	1872.0	1882.5	1886.4	1849.2	1749.5	1596.5	1509.9	1541.7	1620.6	1971.5	1678.2
40°	2058.5	2073.0	2071.9	2018.7	1917.1	1764.1	1633.2	1641.5	1706.4	2098.3	1778.3
42.5°	2415.4	2418.4	2325.0	2209.1	2101.6	1940.3	1778.7	1771.9	1824.8	2258.6	1925.7
45°	2869.4	2857.0	2649.3	2425.4	2294.2	2142.8	1968.1	1935.1	1975.2	2454.4	2110.2
47.5°	3246.2	3217.8	2955.3	2646.4	2498.2	2362.8	2190.4	2132.6	2154.8	2676.3	2348.6
50°	3377.1	3355.7	3138.3	2830.1	2691.4	2631.3	2464.2	2382.4	2388.4	2941.0	2628.0
52.5°	3349.1	3345.9	3200.9	2951.2	2872.1	2913.3	2851.7	2741.2	2682.8	3234.9	2929.5
55°	3282.5	3289.0	3236.5	3092.1	3078.6	3185.5	3358.3	3276.5	3094.8	3531.6	3240.9
57.5°	3052.0	3068.5	3184.1	3269.5	3411.2	3570.1	3766.2	3743.0	3538.4	3852.2	3611.4
60°	2458.9	2497.1	2806.8	3234.9	3753.5	4250.7	4338.4	4284.5	3995.7	4249.9	4100.7
62.5°	1722.9	1762.6	2130.8	2800.9	3697.4	5019.4	5361.3	5128.4	4652.7	4836.1	4733.9
65°	922.3	941.5	1222.7	1943.2	3121.4	5177.9	6856.2	6501.9	5692.7	5558.6	5275.8
67.5°	508.8	519.3	626.9	981.2	1999.2	4559.7	7808.5	8076.2	6992.7	6039.6	5177.2
69°	460.1	469.9	540.3	743.2	1337.8	3770.0	7715.6	8491.3	7562.6	5992.0	4812.8
70°	449.9	458.9	522.3	685.0	1082.9	3107.6	7404.0	8385.2	7698.3	5821.4	4494.8
72.5°	405.0	414.6	476.2	615.2	925.3	1549.3	5864.8	7089.8	6989.4	5047.4	3409.3
75°	377.6	386.6	490.8	602.6	886.0	980.5	3866.3	5225.3	5137.8	3530.8	1838.3
77.5°	161.6	160.8	227.6	509.9	899.1	949.4	2077.6	3264.2	2978.2	1509.1	527.9
80°	107.9	106.1	107.9	150.0	824.5	954.6	1088.4	1656.9	1251.6	384.7	260.2
82.5°	93.0	91.4	94.8	91.4	289.9	1089.6	925.3	881.0	595.0	218.6	128.9
85°	62.6	60.0	81.7	82.2	136.9	968.1	1042.4	744.3	481.4	129.7	63.7
87.5°	30.0	29.3	47.6	58.1	80.2	393.4	1169.4	762.6	485.5	66.3	30.4
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: P192890

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8
2.5°	1958.7	1943.2	1928.3	1910.3	1891.6	1870.6	1860.1	1849.5	1846.9	1844.0	1833.5
5°	1904.7	1883.0	1845.5	1804.2	1760.7	1718.3	1686.1	1665.8	1650.5	1642.6	1628.7
7.5°	1835.0	1803.1	1737.4	1666.2	1593.1	1526.4	1468.7	1432.3	1397.8	1381.7	1363.3
10°	1768.6	1721.0	1619.0	1514.0	1409.0	1308.2	1213.4	1146.2	1086.6	1053.3	1029.6
12.5°	1711.6	1646.3	1505.0	1362.9	1218.9	1075.3	933.2	821.5	728.1	679.0	653.9
15°	1656.2	1577.3	1396.7	1216.3	1031.5	836.2	649.4	522.7	445.4	414.6	404.2
17.5°	1605.9	1505.0	1287.9	1068.5	838.0	601.8	436.4	366.7	337.1	326.9	323.6
20°	1551.5	1432.0	1175.1	914.1	636.3	420.6	340.8	310.1	298.1	295.1	293.6
22.5°	1499.0	1360.0	1067.1	748.8	457.0	324.7	292.9	280.0	278.2	280.8	280.8
25°	1454.4	1295.4	950.4	575.9	335.5	273.3	262.1	259.1	266.1	276.0	277.8
27.5°	1421.0	1242.6	826.3	425.2	267.3	237.7	237.3	242.2	259.8	278.6	282.3
30°	1398.2	1192.3	693.7	306.7	224.2	209.2	215.2	225.7	251.7	278.2	285.3
32.5°	1386.5	1155.2	555.2	237.3	192.0	183.8	193.8	206.6	232.0	256.9	266.1
35°	1395.6	1127.8	424.8	198.0	169.5	163.2	173.6	186.0	200.9	211.4	218.6
37.5°	1429.3	1116.9	320.5	177.3	154.0	148.1	156.3	163.5	169.5	172.5	175.8
40°	1502.0	1128.5	256.9	166.8	145.5	138.0	141.4	144.0	147.7	150.8	152.2
42.5°	1609.3	1163.4	230.2	162.7	141.0	130.1	129.4	130.4	135.4	141.0	142.1
45°	1759.2	1224.9	228.4	165.3	138.8	123.7	120.4	121.9	129.4	138.0	139.6
47.5°	1950.9	1318.6	243.3	173.1	140.6	120.4	114.7	116.6	125.9	137.5	139.6
50°	2182.9	1449.6	268.4	184.8	148.8	121.1	112.9	113.9	123.7	136.5	138.3
52.5°	2457.0	1635.2	295.9	196.1	157.5	125.9	114.4	111.8	120.7	131.9	134.3
55°	2761.8	1873.2	324.0	206.2	161.9	131.9	117.4	108.7	115.2	124.4	126.3
57.5°	3136.1	2206.2	372.7	216.0	165.0	136.1	120.4	105.8	107.9	114.7	116.3
60°	3642.6	2677.1	458.6	232.0	171.7	137.5	119.9	103.1	100.8	104.6	105.3
62.5°	4249.6	3188.5	530.1	252.4	183.0	138.8	117.8	101.3	94.8	94.8	95.6
65°	4609.8	3325.5	490.5	269.3	192.3	137.5	115.2	99.3	90.3	86.2	86.7
67.5°	4304.4	2924.6	420.3	272.6	192.0	132.3	111.0	96.0	85.9	79.5	79.1
69°	3921.6	2523.4	388.9	263.6	183.0	125.6	105.8	92.3	82.5	75.7	75.4
70°	3612.9	2278.5	368.2	253.8	173.1	120.7	101.6	88.8	79.9	73.5	72.7
72.5°	2626.8	1493.0	314.5	218.2	142.8	101.3	87.7	78.0	71.2	67.5	66.7
75°	1312.6	712.1	255.3	177.0	109.5	81.0	72.0	65.2	61.8	61.0	60.7
77.5°	431.1	326.2	182.6	131.9	81.4	63.4	58.1	53.2	52.5	54.7	54.0
80°	237.0	189.7	115.9	87.4	55.5	46.6	45.8	43.1	44.2	48.0	47.2
82.5°	120.7	98.7	71.6	52.5	37.4	33.4	36.4	34.9	36.4	39.8	39.4
85°	59.6	54.0	45.4	31.9	24.7	21.5	25.9	27.0	27.8	30.4	30.4
87.5°	34.5	31.9	24.0	15.0	12.3	11.3	15.0	14.6	17.3	18.8	18.3
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)