

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: P193630

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193630
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-SL2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 9736 lumens
Efficiency: N/A
Efficacy: 86.2 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

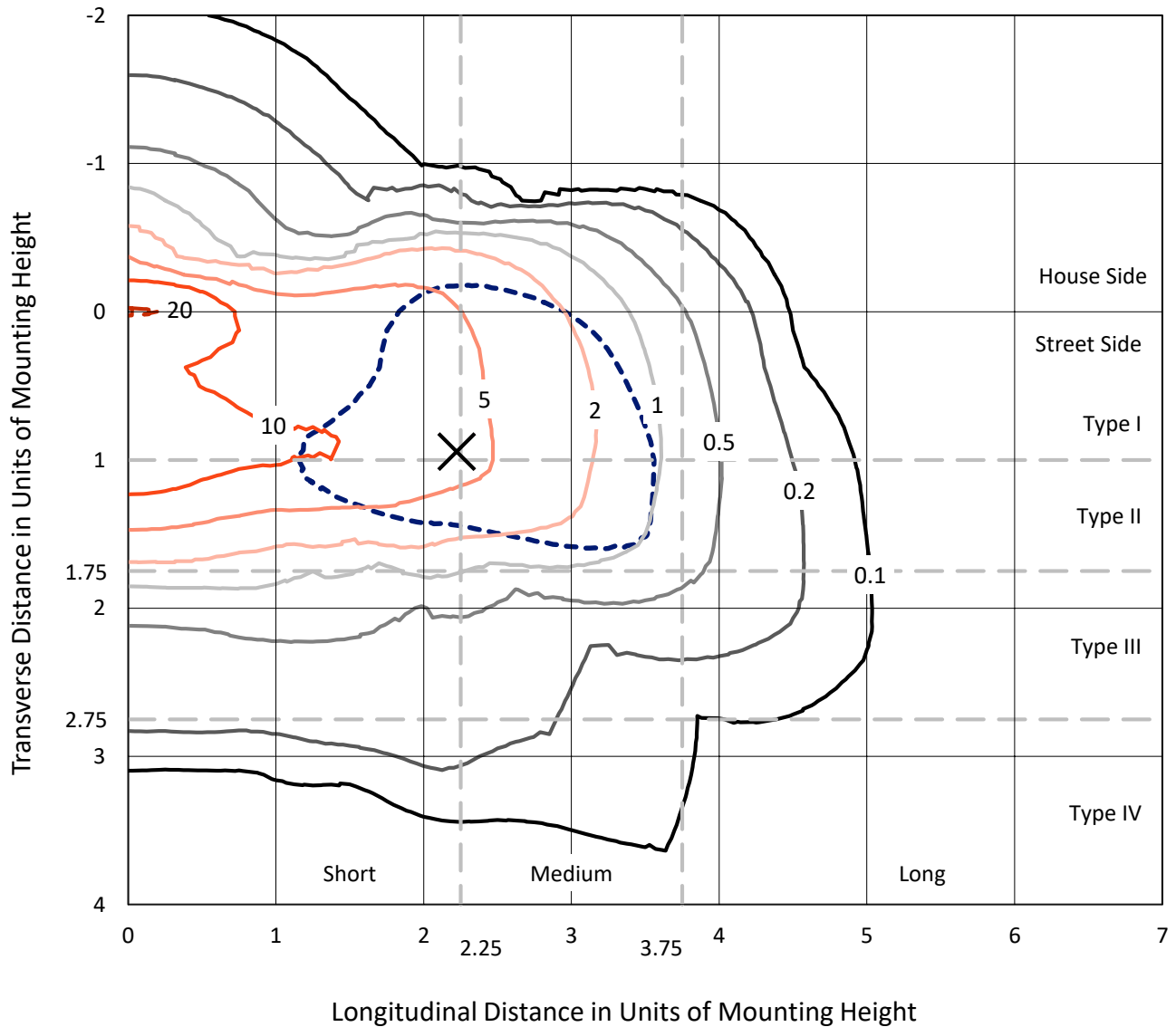
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193630
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030

Iso-Footcandle Lines of Horizontal Illumination

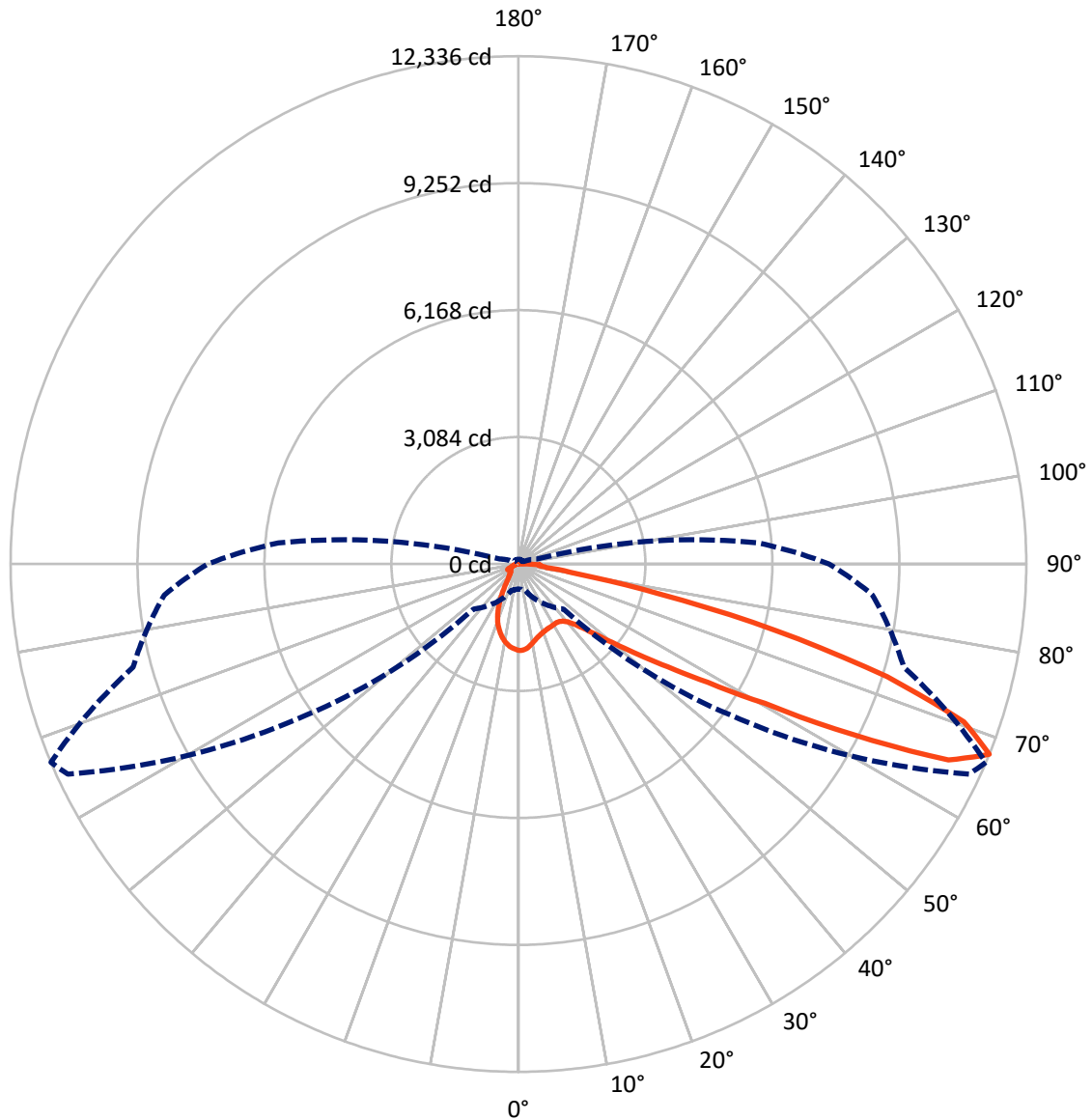
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193630
CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193630

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.1	0.0	1613.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	8122.8	0.0	8122.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	9736.0	0.0	9736.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.8
10°-20°	414.6	4.3
20°-30°	561.9	5.8
30°-40°	798.9	8.2
40°-50°	1336.5	13.7
50°-60°	2114.4	21.7
60°-70°	2693.5	27.7
70°-80°	1410.8	14.5
80°-90°	226.3	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°	9736.0	100.0
0°-180°	9736.0	100.0



REPORT NUMBER: P193630

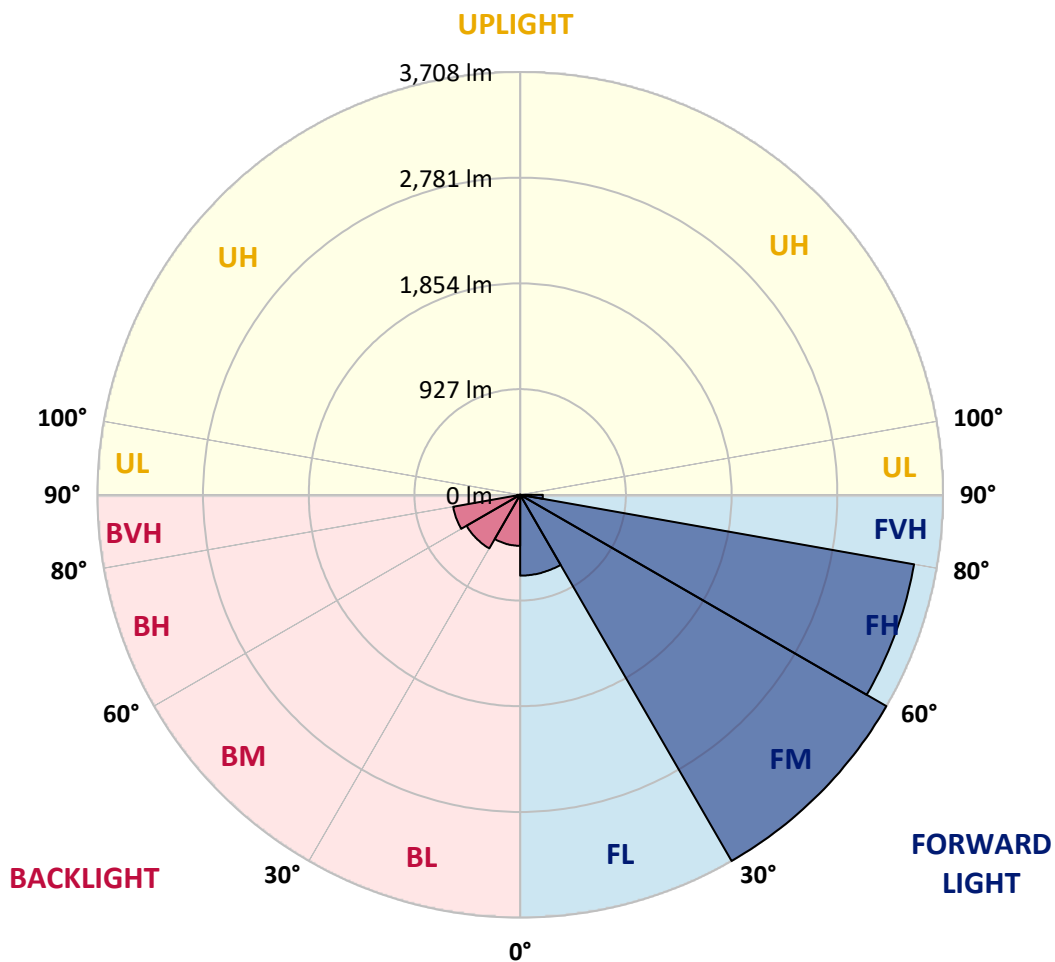
CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	708.5	7.3			
FM	(30°-60°)	3707.7	38.1			
FH	(60°-80°)	3507.7	36.0			G2/5000
FVH	(80°-90°)	199.0	2.0			G2/225
BL	(0°-30°)	447.1	4.6	B1/500		
BM	(30°-60°)	542.1	5.6	B1/1000		
BH	(60°-80°)	596.6	6.1	B2/1000		G2/1000
BVH	(80°-90°)	27.3	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: P193630

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0
2.5°	2013.6	2017.0	2027.5	2034.3	2064.5	2077.5	2086.6	2095.7	2097.2	2101.5	2097.2
5°	1802.4	1809.6	1829.2	1851.3	1909.9	1956.0	2004.5	2054.9	2064.0	2096.7	2105.8
7.5°	1638.6	1636.7	1653.0	1679.4	1739.5	1803.3	1888.3	1988.6	2008.3	2081.8	2117.3
10°	1519.1	1517.6	1534.9	1562.3	1619.4	1679.9	1776.0	1913.3	1941.1	2058.3	2128.4
12.5°	1430.7	1431.2	1448.5	1478.8	1536.9	1597.8	1695.3	1840.3	1875.8	2030.9	2139.9
15°	1372.2	1376.0	1389.9	1422.1	1478.8	1539.7	1635.3	1785.6	1825.4	2009.3	2152.8
17.5°	1352.5	1358.7	1363.5	1387.1	1435.5	1496.5	1590.1	1745.2	1787.5	1994.4	2164.4
20°	1370.7	1377.9	1368.8	1377.0	1407.7	1461.5	1554.6	1713.5	1756.7	1977.6	2165.8
22.5°	1449.0	1455.7	1428.8	1405.3	1403.4	1436.0	1525.3	1688.6	1733.2	1965.1	2166.3
25°	1586.8	1591.1	1546.0	1491.2	1438.0	1426.9	1504.7	1671.3	1718.8	1954.1	2157.2
27.5°	1755.8	1759.1	1707.3	1626.6	1519.6	1448.5	1497.5	1661.2	1710.7	1944.5	2141.8
30°	1961.3	1977.1	1907.5	1805.7	1649.7	1512.4	1511.9	1655.9	1701.5	1928.1	2111.6
32.5°	2171.6	2178.3	2130.3	2027.1	1824.9	1624.7	1552.2	1659.8	1699.1	1908.5	2073.1
35°	2384.7	2393.4	2362.2	2279.1	2064.5	1789.4	1631.0	1682.3	1714.0	1901.7	2046.3
37.5°	2660.8	2672.3	2629.1	2533.1	2355.9	2012.7	1762.0	1739.0	1759.6	1920.9	2038.1
40°	3097.2	3092.0	2965.7	2822.6	2674.7	2298.3	1949.3	1835.0	1847.0	1982.9	2063.1
42.5°	3605.2	3592.2	3374.7	3150.0	3025.2	2644.0	2197.0	2001.6	1999.2	2104.8	2150.9
45°	4010.4	3999.9	3804.0	3526.9	3427.1	3037.7	2517.3	2249.8	2232.1	2298.3	2313.2
47.5°	4229.8	4230.3	4117.5	3891.3	3888.9	3538.0	2928.7	2609.0	2578.2	2609.4	2593.6
50°	4153.0	4163.1	4151.1	4079.1	4310.5	4193.8	3466.0	3109.7	3047.8	3078.5	3017.5
52.5°	3781.4	3794.4	3865.4	3975.8	4487.7	4986.5	4255.3	3731.9	3659.9	3648.9	3581.2
55°	3122.7	3138.5	3283.5	3583.6	4340.3	5518.9	5500.7	4525.1	4410.4	4306.2	4277.4
57.5°	2152.4	2178.8	2412.1	2857.7	3863.5	5679.8	6983.8	5655.8	5422.4	5058.5	5065.2
60°	1213.3	1244.0	1519.1	1923.8	2901.3	5505.0	8112.1	7368.4	6875.8	5939.5	5989.5
62.5°	771.5	804.7	1013.5	1336.6	1740.9	4564.0	8574.4	9749.3	9123.7	7025.6	7074.5
65°	624.6	639.0	737.5	1103.3	1264.1	2749.6	8223.4	11710.5	11477.2	8404.0	8175.4
67.5°	609.7	614.5	665.4	926.1	1212.3	1545.5	6559.4	12077.3	12336.1	9691.2	8633.9
70°	602.5	619.4	749.9	883.9	1160.9	1303.5	3941.8	11072.0	11480.6	10027.7	8023.7
72.5°	292.4	291.4	377.4	799.4	1307.8	1352.0	2025.1	8958.5	9368.5	8687.7	6593.4
75°	235.7	215.6	206.0	292.9	1257.4	1396.2	1290.6	6164.2	6460.9	5824.8	4053.1
77.5°	223.7	199.7	182.9	183.4	531.5	1480.7	1093.2	3411.7	3498.1	2631.0	1110.5
80°	185.3	163.2	151.2	170.4	257.3	1410.1	1182.0	1544.1	1416.8	646.2	369.7
82.5°	128.7	117.1	113.8	143.1	206.0	1004.9	1374.6	829.6	695.7	323.6	228.1
85°	82.1	70.1	77.8	104.2	160.4	463.8	1415.9	646.7	514.2	205.5	128.7
87.5°	37.9	30.7	38.4	57.6	104.7	159.9	1347.2	726.4	529.6	108.5	81.1
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: P193630

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0	2100.0
2.5°	2101.0	2091.9	2084.7	2071.2	2056.3	2041.9	2029.0	2012.7	2007.8	2003.5	2010.2
5°	2107.7	2098.6	2072.2	2030.9	1985.3	1942.6	1899.8	1863.3	1840.8	1828.3	1835.5
7.5°	2117.8	2104.8	2050.1	1974.2	1892.1	1817.2	1739.9	1678.0	1632.4	1610.8	1617.0
10°	2126.9	2102.0	2012.7	1898.9	1778.8	1667.4	1545.5	1444.7	1369.8	1330.4	1340.0
12.5°	2130.8	2090.9	1960.3	1804.8	1640.1	1476.8	1297.3	1146.5	1039.0	999.6	991.4
15°	2134.6	2078.4	1902.7	1697.7	1472.5	1241.6	990.0	809.5	720.2	700.5	696.2
17.5°	2135.6	2056.8	1837.4	1581.5	1276.2	961.7	677.0	562.2	562.7	594.4	598.2
20°	2125.5	2024.7	1758.2	1437.0	1040.9	665.0	464.8	445.1	517.6	596.8	606.4
22.5°	2102.4	1981.9	1668.4	1268.5	771.5	437.9	359.6	381.2	474.8	571.8	582.9
25°	2073.1	1930.1	1562.3	1073.1	510.8	313.0	301.5	327.9	391.3	456.1	462.4
27.5°	2033.3	1868.6	1443.2	849.3	331.8	257.8	265.5	283.3	309.2	338.0	340.9
30°	1981.9	1795.2	1316.0	619.4	250.6	231.9	242.9	252.5	263.6	279.9	281.3
32.5°	1922.9	1724.6	1185.4	427.8	222.3	218.5	227.1	231.9	240.5	250.6	251.6
35°	1873.4	1657.4	1050.0	302.5	210.3	208.4	214.1	216.1	224.2	235.3	236.2
37.5°	1845.1	1602.6	910.3	243.9	202.1	199.2	202.6	202.6	214.1	230.5	232.9
40°	1847.0	1572.4	770.6	220.4	195.4	191.6	192.0	192.0	206.9	224.7	226.1
42.5°	1899.3	1580.1	646.7	211.3	190.1	185.8	183.4	184.8	197.3	208.9	209.8
45°	2022.3	1634.3	530.5	205.5	184.8	183.4	178.1	177.6	182.4	187.7	187.7
47.5°	2223.9	1741.4	451.8	201.6	180.5	180.0	173.8	167.6	167.1	169.0	169.0
50°	2551.8	1925.7	399.0	197.3	177.6	173.8	166.6	157.0	153.6	155.1	155.1
52.5°	3043.5	2254.6	378.8	191.6	171.4	165.2	157.0	147.4	144.5	145.0	145.0
55°	3688.3	2759.7	375.9	184.8	164.7	154.6	147.9	140.7	137.3	138.3	138.3
57.5°	4476.1	3458.3	427.3	174.3	155.6	144.0	140.2	135.4	133.0	134.4	134.0
60°	5434.0	4372.4	633.8	163.2	146.4	134.4	134.4	130.6	128.7	130.1	129.6
62.5°	6537.3	5422.4	891.1	155.1	136.8	126.8	128.7	126.8	124.8	125.8	125.3
65°	7515.8	6106.6	834.4	148.8	127.2	119.5	122.9	121.9	120.5	121.5	121.0
67.5°	7544.1	5853.1	468.6	142.1	118.1	112.3	117.1	116.7	115.7	116.7	116.2
70°	6732.7	4942.3	264.1	129.6	108.5	103.7	110.4	109.9	109.0	110.9	110.4
72.5°	5394.1	3586.5	193.0	114.3	98.9	94.6	102.3	101.8	101.8	104.7	103.2
75°	3104.0	1845.6	154.1	97.9	88.8	85.5	92.2	92.7	93.6	97.5	94.6
77.5°	884.9	575.2	125.8	83.1	76.3	74.9	81.6	82.6	83.1	87.4	83.5
80°	328.9	265.0	103.7	69.6	62.4	62.9	69.1	70.6	71.1	75.4	70.6
82.5°	209.8	174.8	84.0	53.8	49.0	48.5	56.2	58.1	58.1	58.6	55.7
85°	122.4	104.7	63.4	38.9	34.6	33.1	41.8	45.1	43.7	42.7	40.8
87.5°	82.1	72.0	38.9	21.6	18.7	17.8	24.5	26.9	25.9	24.5	23.0
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)