

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: P269065

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269065
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-SL2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 10365.4 lumens
Efficiency: N/A
Efficacy: 91.7 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

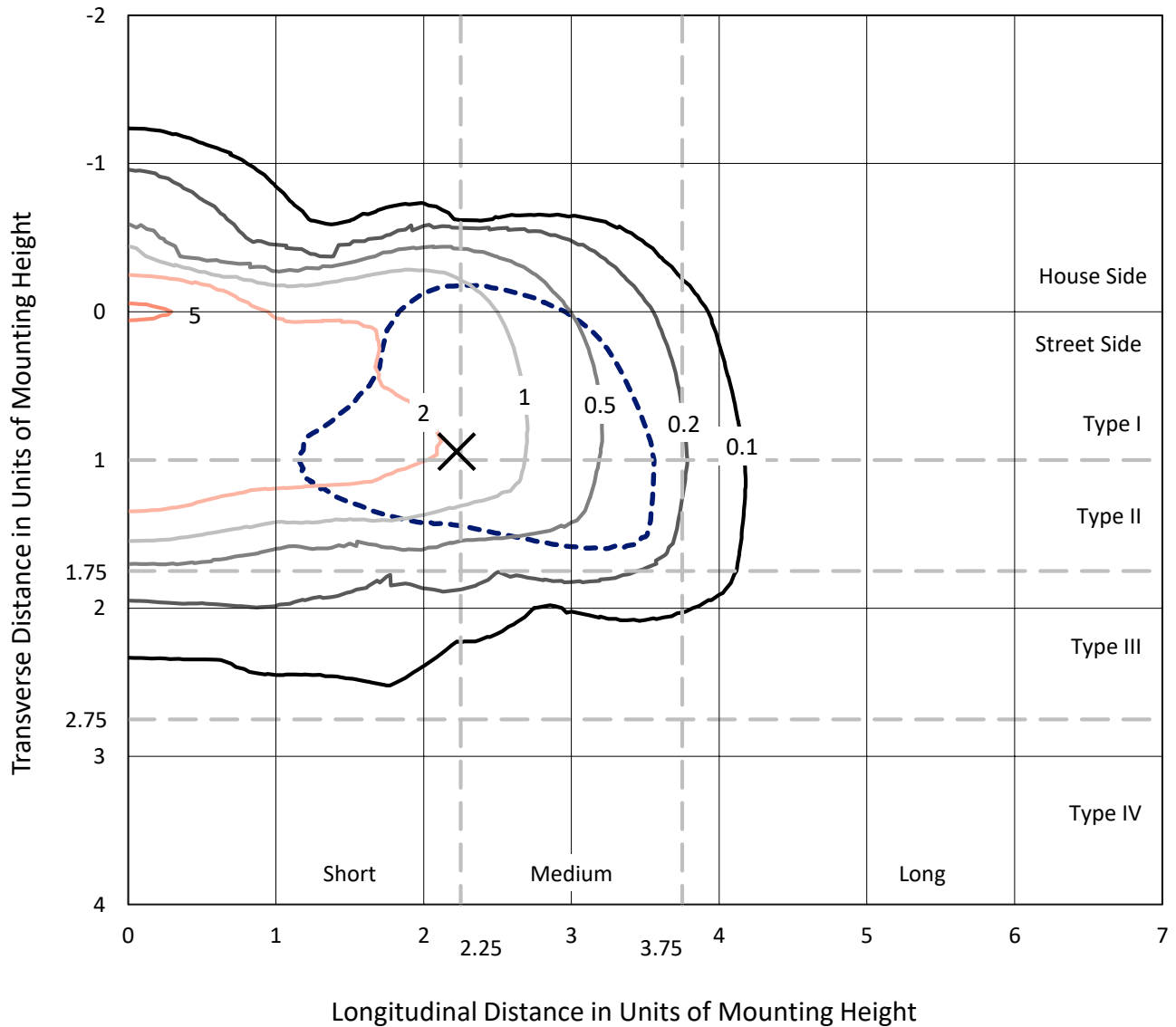
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

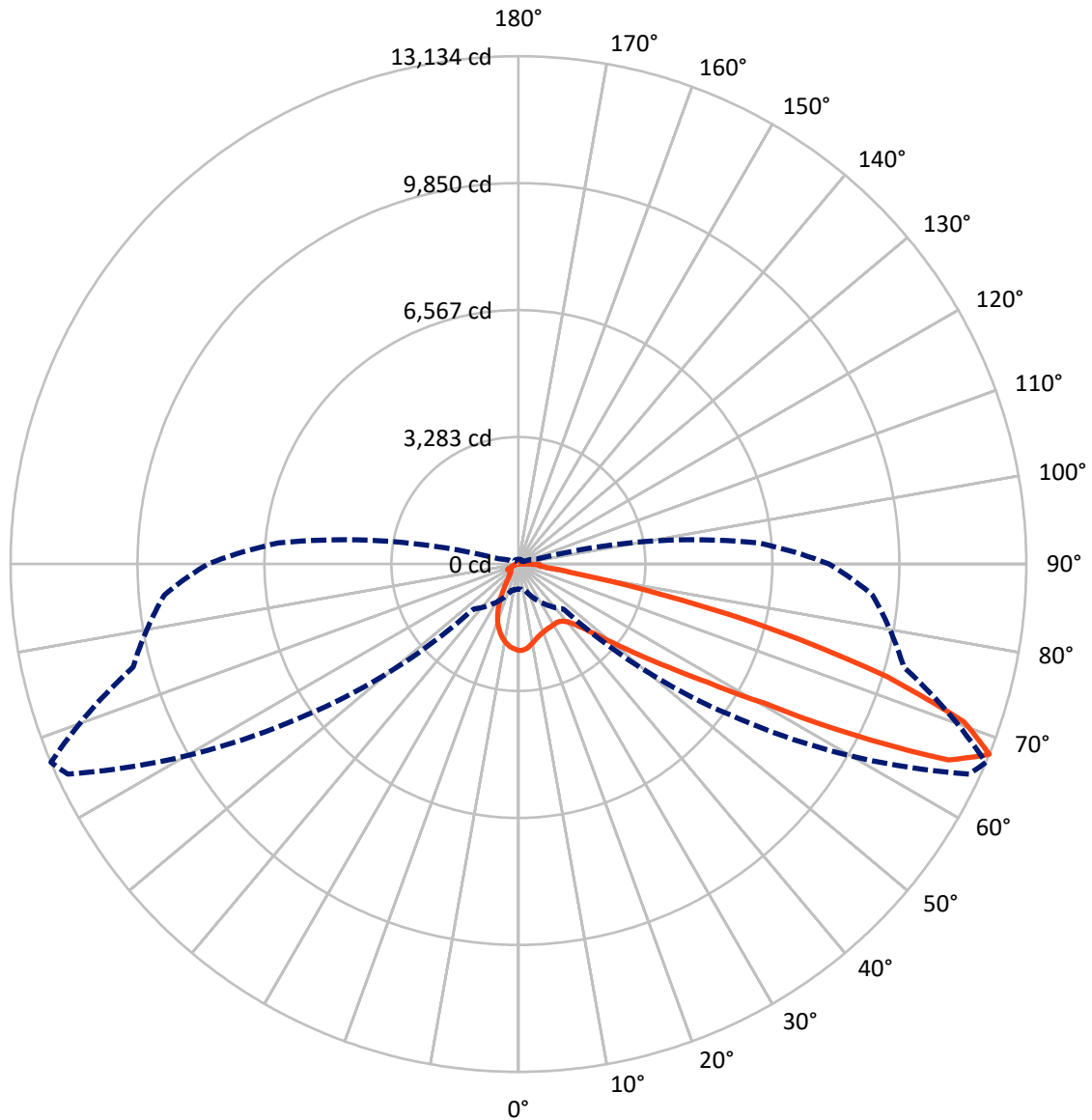
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

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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	1717.5	0.0	1717.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	8648.0	0.0	8648.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	10365.4	0.0	10365.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	1.8
10°-20°	441.4	4.3
20°-30°	598.3	5.8
30°-40°	850.5	8.2
40°-50°	1422.9	13.7
50°-60°	2251.1	21.7
60°-70°	2867.6	27.7
70°-80°	1502.1	14.5
80°-90°	240.9	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°	10365.4	100.0
0°-180°	10365.4	100.0



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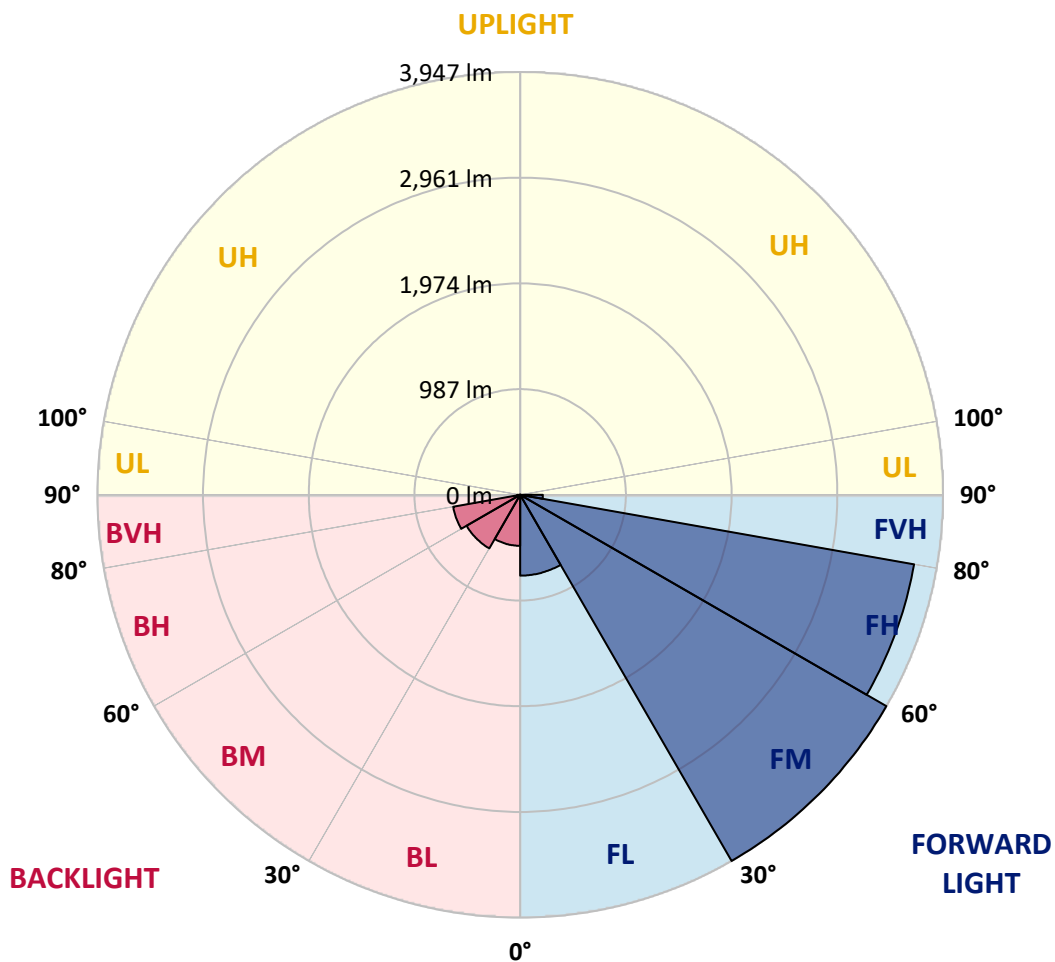
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.4	7.3			
FM	(30°-60°)	3947.4	38.1			
FH	(60°-80°)	3734.4	36.0			G2/5000
FVH	(80°-90°)	211.8	2.0			G2/225
BL	(0°-30°)	476.0	4.6	B1/500		
BM	(30°-60°)	577.1	5.6	B1/1000		
BH	(60°-80°)	635.2	6.1	B2/1000		G2/1000
BVH	(80°-90°)	29.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8
2.5°	2143.7	2147.4	2158.5	2165.8	2198.0	2211.7	2221.5	2231.2	2232.7	2237.3	2232.7
5°	1918.9	1926.5	1947.5	1971.1	2033.4	2082.5	2134.1	2187.7	2197.4	2232.2	2241.9
7.5°	1744.6	1742.5	1759.9	1788.0	1851.9	1919.9	2010.3	2117.2	2138.1	2216.4	2254.1
10°	1617.3	1615.8	1634.1	1663.3	1724.1	1788.5	1890.8	2036.9	2066.6	2191.3	2266.0
12.5°	1523.3	1523.7	1542.2	1574.4	1636.3	1701.1	1804.9	1959.3	1997.1	2162.2	2278.2
15°	1460.9	1465.0	1479.8	1514.1	1574.4	1639.2	1740.9	1901.1	1943.5	2139.3	2292.0
17.5°	1440.0	1446.6	1451.8	1476.8	1528.3	1593.2	1692.9	1858.1	1903.0	2123.4	2304.3
20°	1459.3	1467.0	1457.3	1466.0	1498.7	1556.0	1655.1	1824.3	1870.4	2105.4	2305.8
22.5°	1542.7	1549.8	1521.2	1496.1	1494.2	1528.8	1624.0	1797.8	1845.3	2092.2	2306.4
25°	1689.4	1693.9	1646.0	1587.7	1530.9	1519.2	1601.9	1779.4	1829.9	2080.5	2296.6
27.5°	1869.4	1872.8	1817.7	1731.8	1617.8	1542.2	1594.3	1768.7	1821.3	2070.1	2280.3
30°	2088.1	2105.0	2030.8	1922.5	1756.4	1610.1	1609.7	1763.0	1811.5	2052.7	2248.1
32.5°	2312.0	2319.2	2268.0	2158.1	1942.9	1729.7	1652.5	1767.1	1808.9	2031.8	2207.1
35°	2538.9	2548.1	2514.8	2426.4	2198.0	1905.0	1736.5	1791.1	1824.8	2024.7	2178.6
37.5°	2832.8	2845.1	2799.1	2696.8	2508.2	2142.7	1875.9	1851.3	1873.3	2045.1	2169.9
40°	3297.5	3291.8	3157.5	3005.1	2847.6	2447.0	2075.4	1953.6	1966.4	2111.0	2196.4
42.5°	3838.3	3824.4	3593.0	3353.7	3220.9	2814.8	2339.0	2131.0	2128.4	2240.9	2290.0
45°	4269.6	4258.4	4049.9	3754.9	3648.6	3234.1	2680.1	2395.3	2376.3	2447.0	2462.8
47.5°	4503.4	4503.8	4383.6	4143.0	4140.4	3766.8	3118.0	2777.6	2745.0	2778.2	2761.3
50°	4421.5	4432.2	4419.4	4342.8	4589.1	4464.9	3690.1	3310.8	3244.8	3277.6	3212.6
52.5°	4025.8	4039.7	4115.3	4232.9	4777.7	5308.9	4530.4	3973.3	3896.6	3884.8	3812.8
55°	3324.5	3341.4	3495.8	3815.3	4620.8	5875.8	5856.3	4817.6	4695.5	4584.6	4553.9
57.5°	2291.4	2319.7	2568.1	3042.4	4113.2	6047.0	7435.4	6021.3	5773.0	5385.6	5392.6
60°	1291.8	1324.5	1617.3	2048.1	3088.9	5860.9	8636.5	7844.7	7320.3	6323.4	6376.7
62.5°	821.4	856.8	1079.0	1423.0	1853.5	4859.0	9128.8	10379.6	9713.6	7479.7	7531.8
65°	665.0	680.3	785.1	1174.7	1345.9	2927.3	8755.2	12467.5	12219.1	8947.3	8703.9
67.5°	649.1	654.2	708.5	986.0	1290.7	1645.4	6983.5	12858.1	13133.7	10317.8	9192.1
70°	641.5	659.4	798.5	941.1	1236.0	1387.8	4196.6	11787.7	12222.8	10675.9	8542.4
72.5°	311.4	310.3	401.7	851.1	1392.5	1439.4	2156.0	9537.7	9974.2	9249.4	7019.7
75°	250.9	229.4	219.2	311.8	1338.7	1486.4	1374.0	6562.7	6878.6	6201.4	4315.2
77.5°	238.2	212.7	194.8	195.2	565.8	1576.3	1163.9	3632.2	3724.4	2801.2	1182.3
80°	197.3	173.8	161.1	181.5	274.0	1501.2	1258.4	1643.9	1508.4	688.0	393.5
82.5°	137.0	124.8	121.1	152.4	219.2	1069.8	1463.5	883.3	740.7	344.5	242.8
85°	87.5	74.6	82.9	110.9	170.7	493.8	1507.4	688.6	547.4	218.7	137.0
87.5°	40.3	32.7	41.0	61.4	111.4	170.1	1434.4	773.4	563.7	115.5	86.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8	2235.8
2.5°	2236.8	2227.1	2219.4	2205.1	2189.3	2174.0	2160.2	2142.7	2137.6	2133.0	2140.2
5°	2244.0	2234.3	2206.1	2162.2	2113.6	2068.2	2022.7	1983.7	1959.7	1946.4	1954.2
7.5°	2254.7	2240.9	2182.6	2101.9	2014.4	1934.7	1852.5	1786.5	1738.0	1715.0	1721.6
10°	2264.4	2237.9	2142.7	2021.6	1893.8	1775.2	1645.4	1538.1	1458.3	1416.4	1426.7
12.5°	2268.5	2226.1	2087.0	1921.5	1746.1	1572.4	1381.1	1220.6	1106.2	1064.2	1055.6
15°	2272.6	2212.7	2025.7	1807.5	1567.7	1321.9	1054.0	861.8	766.8	745.8	741.2
17.5°	2273.6	2189.8	1956.1	1683.8	1358.6	1023.9	720.7	598.6	599.1	632.9	636.9
20°	2262.9	2155.6	1871.9	1530.0	1108.1	708.0	494.7	473.9	551.0	635.5	645.6
22.5°	2238.3	2110.1	1776.3	1350.5	821.4	466.2	382.9	405.9	505.6	608.8	620.5
25°	2207.1	2054.9	1663.3	1142.5	543.8	333.4	321.1	349.1	416.6	485.7	492.2
27.5°	2164.7	1989.4	1536.6	904.2	353.3	274.5	282.6	301.7	329.1	359.9	362.9
30°	2110.1	1911.2	1401.0	659.4	266.8	246.9	258.6	268.9	280.6	298.0	299.6
32.5°	2047.1	1836.0	1262.1	455.4	236.7	232.7	241.7	246.9	256.0	266.8	267.9
35°	1994.5	1764.5	1117.9	322.0	223.9	221.8	228.0	230.1	238.7	250.4	251.4
37.5°	1964.4	1706.2	969.1	259.7	215.2	212.1	215.8	215.8	228.0	245.3	247.9
40°	1966.4	1674.0	820.4	234.5	208.0	203.9	204.5	204.5	220.4	239.2	240.7
42.5°	2022.2	1682.3	688.6	224.9	202.4	197.7	195.2	196.8	210.1	222.3	223.4
45°	2153.0	1739.9	564.9	218.7	196.8	195.2	189.6	189.2	194.3	199.9	199.9
47.5°	2367.7	1853.9	481.0	214.7	192.1	191.7	185.1	178.5	177.9	179.9	179.9
50°	2716.8	2050.2	424.8	210.1	189.2	185.1	177.3	167.2	163.6	165.1	165.1
52.5°	3240.2	2400.5	403.2	203.9	182.4	175.9	167.2	156.9	153.9	154.4	154.4
55°	3926.8	2938.1	400.3	196.8	175.3	164.6	157.5	149.7	146.2	147.2	147.2
57.5°	4765.5	3681.9	454.9	185.6	165.6	153.3	149.3	144.2	141.7	143.1	142.7
60°	5785.3	4655.0	674.7	173.8	155.9	143.1	143.1	139.1	137.0	138.5	138.0
62.5°	6959.9	5773.0	948.7	165.1	145.6	134.9	137.0	134.9	132.9	133.8	133.4
65°	8001.7	6501.5	888.5	158.5	135.5	127.3	130.9	129.8	128.3	129.4	128.7
67.5°	8031.7	6231.5	498.9	151.4	125.8	119.7	124.8	124.2	123.2	124.2	123.6
70°	7167.9	5261.8	281.1	138.0	115.5	110.4	117.6	117.0	116.1	118.0	117.6
72.5°	5742.9	3818.3	205.5	121.7	105.3	100.7	108.9	108.3	108.3	111.4	110.0
75°	3304.7	1965.0	164.1	104.3	94.5	91.0	98.2	98.6	99.7	103.8	100.7
77.5°	942.1	612.4	133.8	88.5	81.2	79.7	86.9	87.9	88.5	93.1	88.9
80°	350.1	282.2	110.4	74.1	66.5	67.0	73.7	75.2	75.6	80.3	75.2
82.5°	223.4	186.0	89.4	57.2	52.1	51.7	59.7	61.9	61.9	62.3	59.3
85°	130.3	111.4	67.5	41.4	36.8	35.3	44.5	48.1	46.5	45.5	43.5
87.5°	87.5	76.6	41.4	22.9	19.9	19.0	26.1	28.7	27.6	26.1	24.6
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)