

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: P191260

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12986.4 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

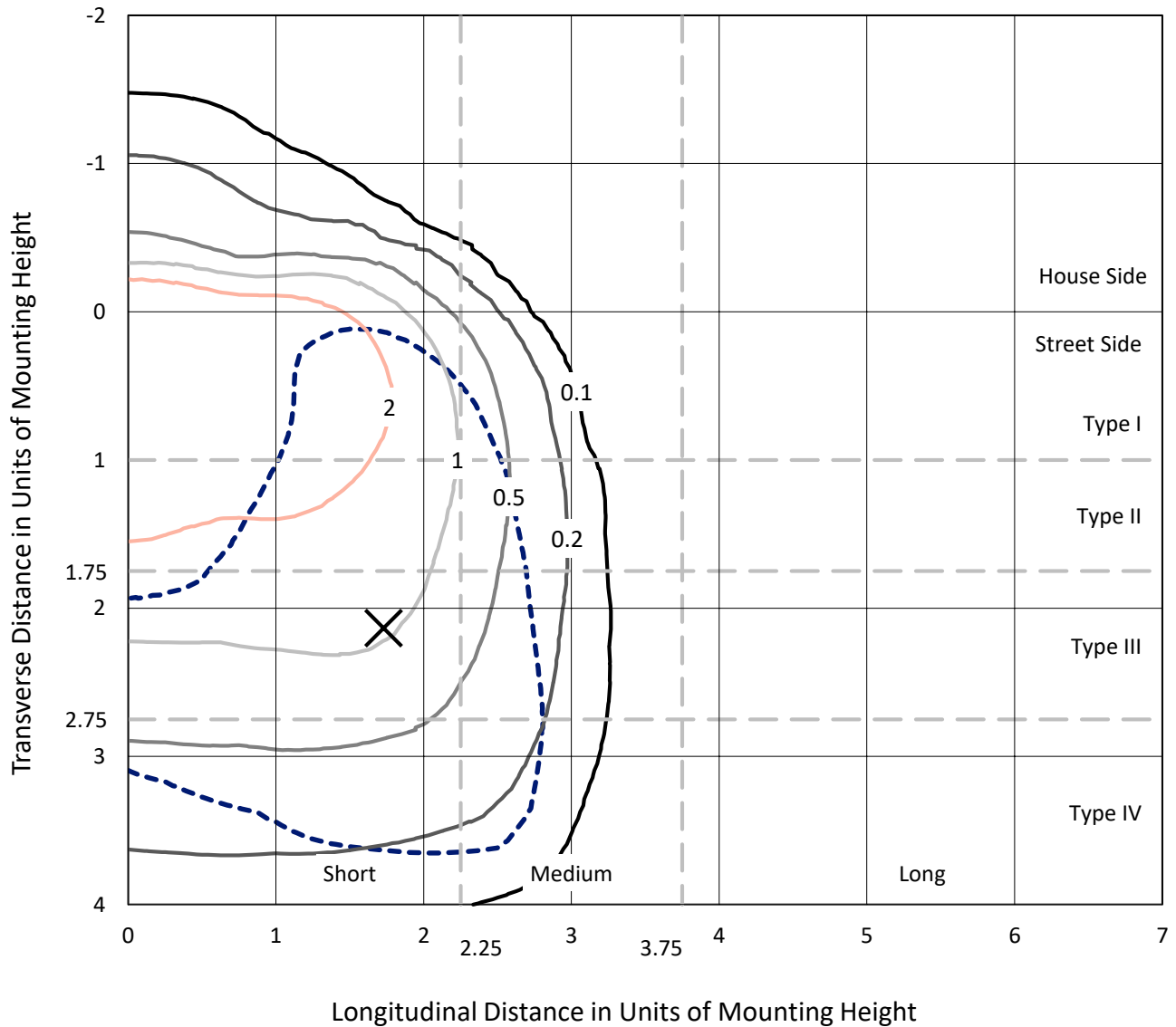
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

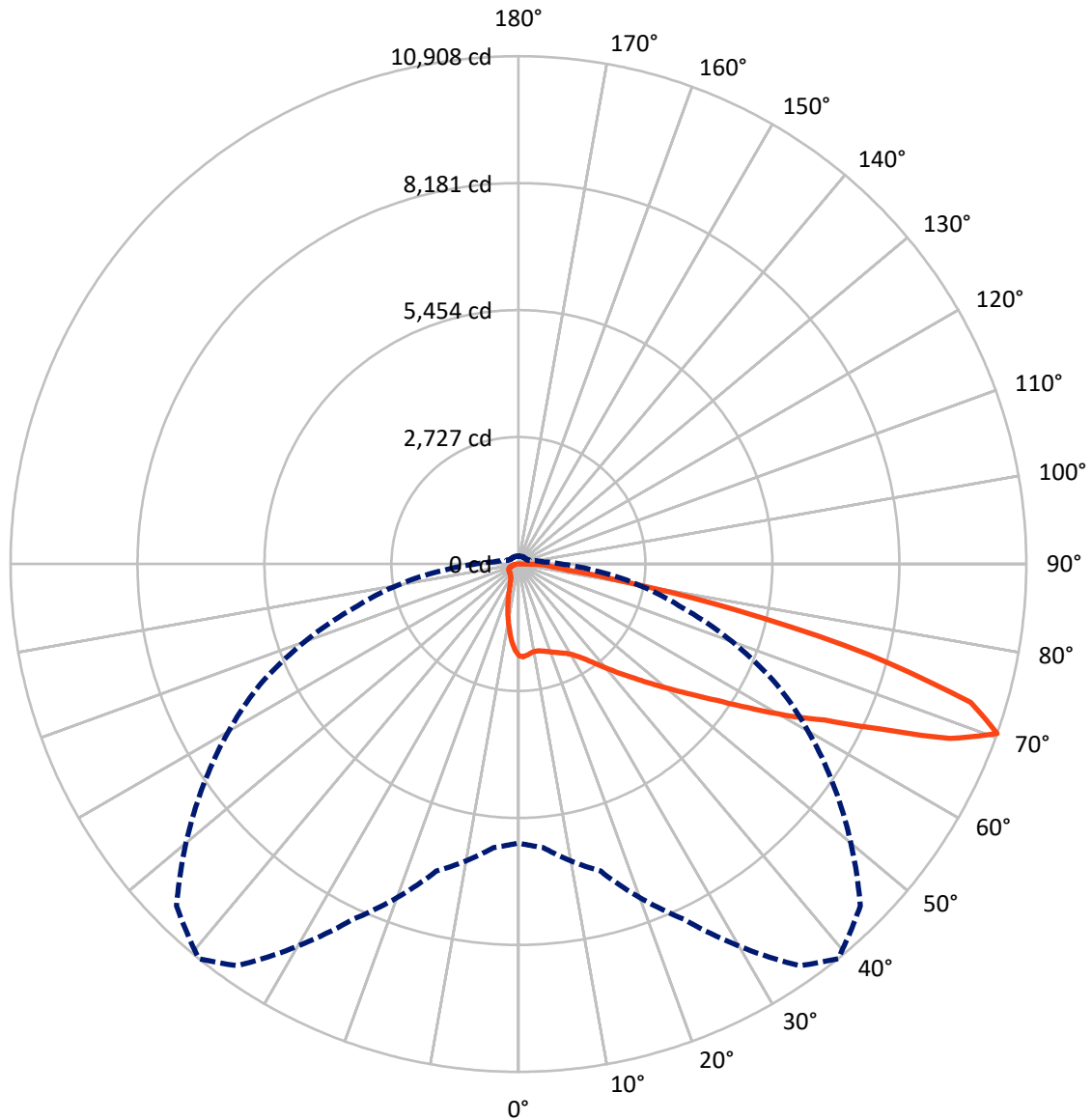
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.0	0.0	1477.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	11509.4	0.0	11509.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	12986.4	0.0	12986.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.3
10°-20°	422.9	3.3
20°-30°	658.5	5.1
30°-40°	1025.8	7.9
40°-50°	1722.2	13.3
50°-60°	2735.8	21.1
60°-70°	3649.3	28.1
70°-80°	2203.7	17.0
80°-90°	398.9	3.1
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°	12986.4	100.0
0°-180°	12986.4	100.0



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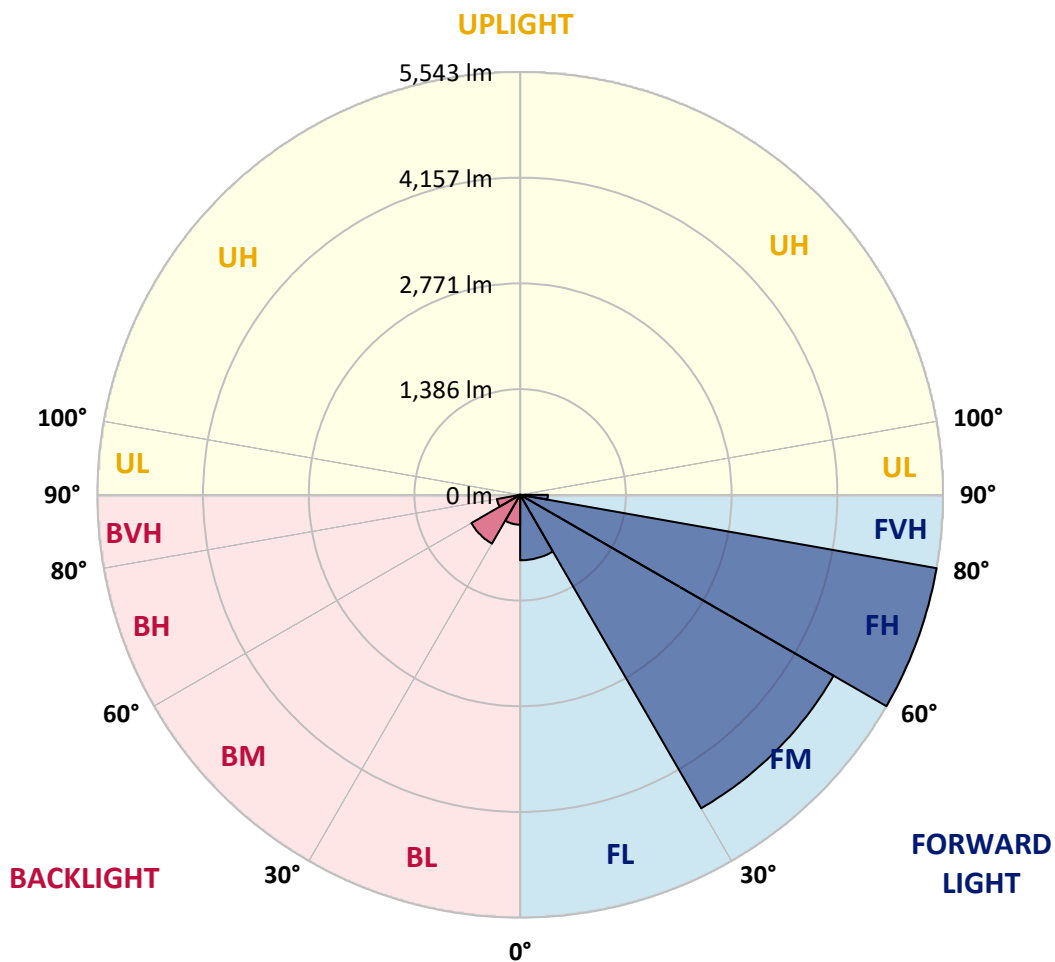
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	858.8	6.6			
FM	(30°-60°)	4744.7	36.5			
FH	(60°-80°)	5543.0	42.7			G3/7500
FVH	(80°-90°)	362.9	2.8			G3/500
BL	(0°-30°)	391.8	3.0	B1/500		
BM	(30°-60°)	739.1	5.7	B1/1000		
BH	(60°-80°)	310.1	2.4	B1/500		G1/500
BVH	(80°-90°)	36.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	2009.8	2009.2	2003.9	2000.0	1996.6	1995.3	1997.9	1988.0	1979.4	1968.9	1957.6
5°	1994.7	1993.9	1985.4	1977.5	1969.6	1966.9	1966.2	1948.4	1937.9	1922.0	1900.8
7.5°	1978.2	1974.8	1963.7	1950.4	1936.5	1929.9	1923.4	1900.2	1888.4	1872.5	1848.1
10°	1961.0	1957.0	1946.5	1933.3	1920.1	1910.2	1898.9	1876.5	1863.9	1852.1	1823.6
12.5°	1943.1	1939.8	1937.2	1931.2	1922.0	1913.4	1904.8	1885.7	1872.5	1858.6	1825.7
15°	1940.5	1939.2	1945.1	1949.1	1943.8	1938.5	1929.3	1912.8	1898.9	1885.0	1842.1
17.5°	1961.6	1961.0	1976.1	1986.7	1984.1	1974.8	1962.3	1943.8	1932.6	1920.7	1867.2
20°	2007.8	2011.1	2029.6	2043.5	2030.3	2017.1	1996.6	1970.9	1964.9	1959.7	1893.0
22.5°	2095.0	2098.3	2111.5	2116.8	2082.4	2063.3	2035.0	2001.9	1997.9	2001.9	1924.0
25°	2231.1	2227.7	2225.7	2205.9	2143.2	2113.5	2077.2	2042.8	2044.8	2062.7	1967.5
27.5°	2411.3	2393.4	2365.7	2306.2	2206.6	2173.6	2129.4	2097.7	2110.1	2144.5	2032.9
30°	2598.1	2578.3	2514.3	2417.2	2289.8	2253.5	2203.9	2168.2	2201.3	2255.4	2120.1
32.5°	2771.1	2768.4	2674.7	2549.9	2404.7	2372.9	2323.4	2283.1	2336.6	2419.2	2250.8
35°	2959.9	2965.8	2853.6	2703.8	2559.8	2526.8	2491.2	2460.8	2532.1	2645.7	2440.4
37.5°	3161.9	3173.9	3041.1	2872.1	2736.8	2722.9	2701.8	2688.6	2798.8	2956.0	2705.1
40°	3432.0	3420.1	3235.9	3062.3	2954.0	2953.4	2946.7	2962.6	3146.1	3361.4	3045.1
42.5°	3721.2	3686.2	3442.5	3266.3	3192.3	3214.8	3228.0	3292.7	3564.1	3854.0	3459.7
45°	4032.9	3954.3	3657.2	3482.2	3457.1	3504.6	3549.5	3690.2	4056.0	4414.4	3914.0
47.5°	4281.8	4205.9	3879.0	3708.7	3763.4	3835.5	3921.9	4144.5	4606.7	4993.5	4362.4
50°	4477.9	4428.4	4102.9	3972.7	4100.9	4211.8	4353.1	4658.8	5179.7	5557.4	4777.6
52.5°	4668.0	4631.0	4328.6	4243.5	4497.0	4650.2	4842.3	5210.7	5767.4	6112.0	5126.9
55°	4839.7	4813.3	4571.7	4580.9	4963.2	5162.5	5404.2	5839.3	6407.8	6606.5	5422.7
57.5°	5033.1	4999.5	4848.9	5004.1	5562.0	5820.8	6135.1	6545.8	7008.6	7046.3	5647.8
60°	5227.9	5198.8	5156.6	5492.7	6322.7	6594.7	6892.4	7230.5	7618.0	7387.6	5634.6
62.5°	5397.0	5400.3	5474.8	6005.7	7067.4	7382.3	7745.5	8079.6	8169.4	7447.1	5218.0
65°	5683.5	5735.7	5958.2	6732.0	8115.9	8537.1	8982.8	8929.3	8321.9	6891.8	4324.7
67.5°	6024.2	6116.0	6566.9	7700.0	9441.0	10000.3	10172.6	9121.4	7711.1	5602.3	3082.8
70°	5989.9	6116.0	6829.7	8421.5	10533.1	10908.1	10385.2	8255.2	6123.3	3659.8	1637.4
72.5°	5319.0	5499.3	6294.2	8090.8	10189.1	10156.1	9015.8	6154.3	3638.0	1469.8	639.8
75°	4054.0	4236.2	4920.3	6391.9	8053.2	7775.9	6397.2	3399.7	1380.6	583.7	403.5
77.5°	2332.0	2473.3	3001.5	3919.9	5109.1	4824.5	3560.8	1512.0	672.2	406.7	315.0
80°	1302.0	1380.6	1701.5	1988.7	2503.7	2295.1	1593.2	939.6	501.8	295.1	243.0
82.5°	1029.3	1099.4	1376.0	1254.4	1143.6	1055.1	915.1	836.6	400.8	186.2	145.3
85°	899.3	966.0	1164.7	987.8	781.1	716.4	743.5	823.4	311.6	112.2	124.1
87.5°	833.3	922.4	1037.9	761.3	608.1	538.8	686.0	902.5	100.4	70.0	50.2
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°	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	1947.8	1937.2	1920.1	1904.8	1881.1	1868.5	1854.7	1844.8	1836.8	1830.3	1840.8
5°	1887.7	1867.9	1831.6	1792.6	1746.4	1710.1	1679.7	1651.3	1631.5	1618.3	1627.5
7.5°	1830.9	1798.6	1741.8	1671.1	1591.9	1524.5	1469.1	1420.3	1386.5	1364.7	1373.3
10°	1798.6	1758.2	1670.5	1559.5	1442.7	1337.7	1250.6	1175.3	1123.1	1093.4	1098.0
12.5°	1790.6	1738.5	1617.0	1464.5	1304.7	1158.8	1035.9	931.6	858.4	820.0	821.3
15°	1796.6	1729.9	1566.8	1373.3	1171.3	987.0	833.9	707.2	622.0	578.4	577.8
17.5°	1806.4	1723.3	1514.0	1275.0	1035.9	822.0	651.0	526.9	451.6	416.6	414.0
20°	1817.1	1712.7	1454.5	1168.6	895.3	668.8	509.7	412.7	365.1	346.0	344.6
22.5°	1832.2	1703.4	1393.2	1056.4	757.3	544.7	419.3	353.9	328.8	318.9	317.6
25°	1856.7	1698.8	1327.8	939.6	633.2	455.6	365.1	324.9	310.4	303.7	303.1
27.5°	1897.6	1705.5	1266.4	826.0	532.1	395.5	334.7	310.4	299.7	293.8	293.2
30°	1950.4	1725.9	1201.7	718.3	453.6	354.6	316.3	300.4	291.8	285.9	285.9
32.5°	2038.2	1760.3	1133.6	625.2	397.5	326.1	302.4	291.8	284.6	280.0	279.3
35°	2167.6	1824.9	1070.3	548.0	357.2	305.7	290.5	282.6	277.3	274.7	274.7
37.5°	2355.8	1927.3	1014.2	492.6	332.8	291.8	279.3	273.3	270.1	270.1	270.1
40°	2608.7	2068.6	968.6	455.6	318.9	281.9	270.7	266.1	264.1	264.7	264.7
42.5°	2920.9	2252.1	938.3	429.8	312.3	276.0	264.7	260.9	258.8	258.2	258.8
45°	3276.8	2460.8	934.9	410.7	305.7	272.0	260.9	256.9	252.9	250.2	250.2
47.5°	3622.9	2672.8	962.0	404.1	298.4	267.4	257.5	253.6	247.6	241.6	241.6
50°	3928.5	2853.0	998.3	406.7	295.8	260.9	252.3	250.2	241.0	234.4	233.7
52.5°	4171.5	2991.6	1028.1	414.6	298.4	256.1	245.6	246.3	236.4	229.1	228.4
55°	4366.3	3082.8	1020.1	422.6	304.3	253.6	239.7	241.0	233.0	225.8	225.8
57.5°	4451.5	3049.1	932.3	415.9	309.0	254.2	235.1	240.3	233.7	227.1	227.1
60°	4268.6	2750.0	767.9	386.9	303.1	252.3	233.0	243.0	242.3	235.7	235.1
62.5°	3715.3	2214.5	595.6	344.0	282.6	242.3	227.8	242.3	249.6	247.6	246.9
65°	2863.5	1577.4	454.9	297.8	254.8	225.8	213.9	227.1	237.0	239.7	239.1
67.5°	1858.6	966.6	350.6	254.2	223.8	206.6	196.1	202.0	204.0	204.0	202.7
70°	913.8	520.3	279.3	213.9	192.1	186.2	180.2	177.0	173.7	171.0	171.0
72.5°	450.9	340.0	229.8	181.0	165.7	163.1	161.7	157.8	155.2	151.9	150.6
75°	333.4	276.6	195.5	152.5	142.6	139.9	142.6	139.3	138.6	136.1	134.7
77.5°	274.0	235.7	168.4	130.7	122.1	117.5	121.5	122.1	122.9	118.9	117.5
80°	222.5	199.4	140.7	108.3	100.4	97.1	99.7	105.0	106.3	100.4	97.7
82.5°	160.4	163.1	113.5	84.5	77.9	75.3	80.5	87.2	88.5	79.9	77.9
85°	134.7	136.1	87.2	60.0	53.5	49.5	58.1	64.8	69.4	60.8	58.7
87.5°	56.2	79.9	50.2	33.7	29.7	25.8	31.0	34.4	41.6	38.3	37.6
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)