

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: P193772

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193772
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-04-LED-E1-SL4-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 12267 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' 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

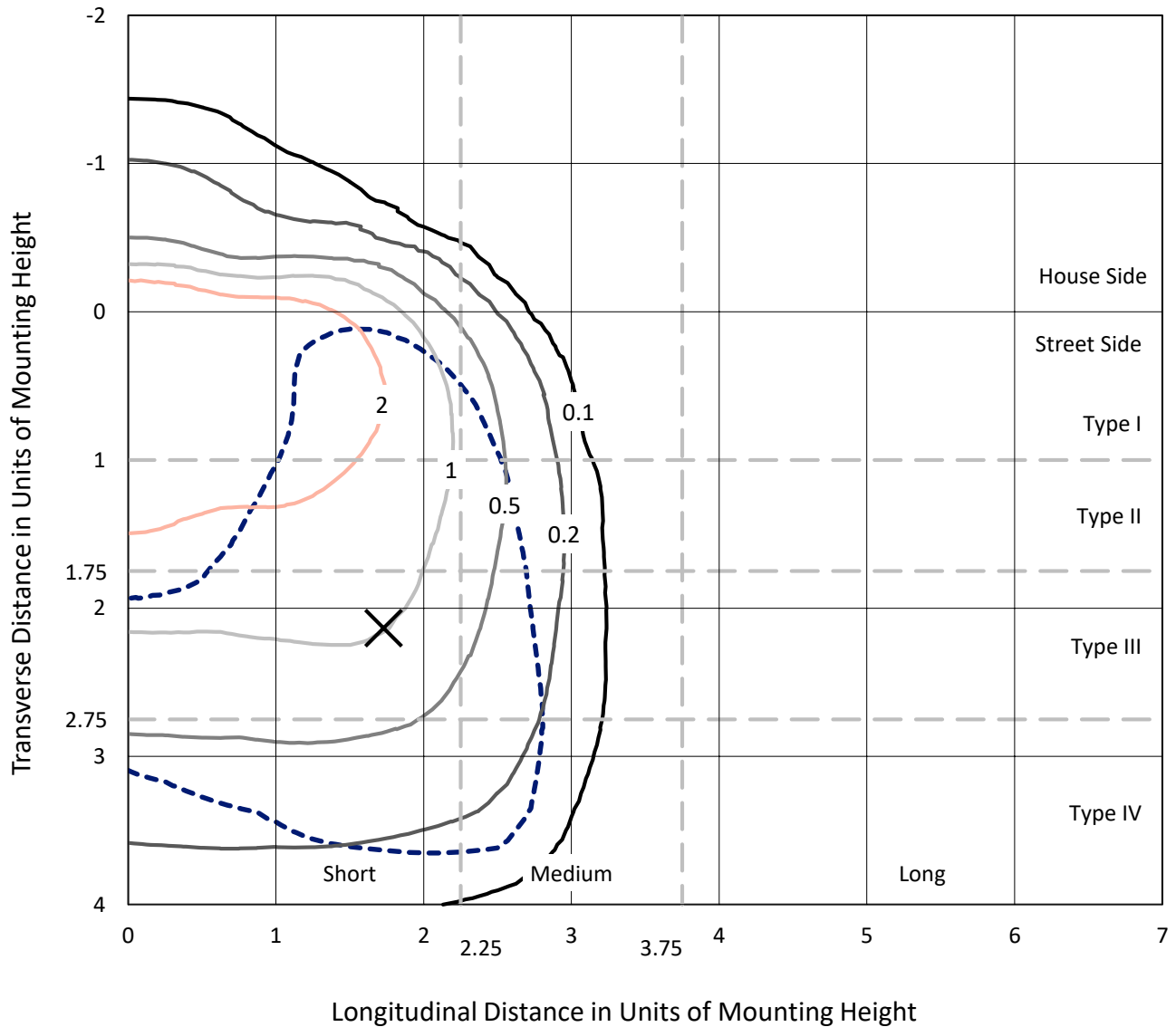


REPORT NUMBER: P193772

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL4-8030-600

Iso-Footcandle Lines of Horizontal Illumination

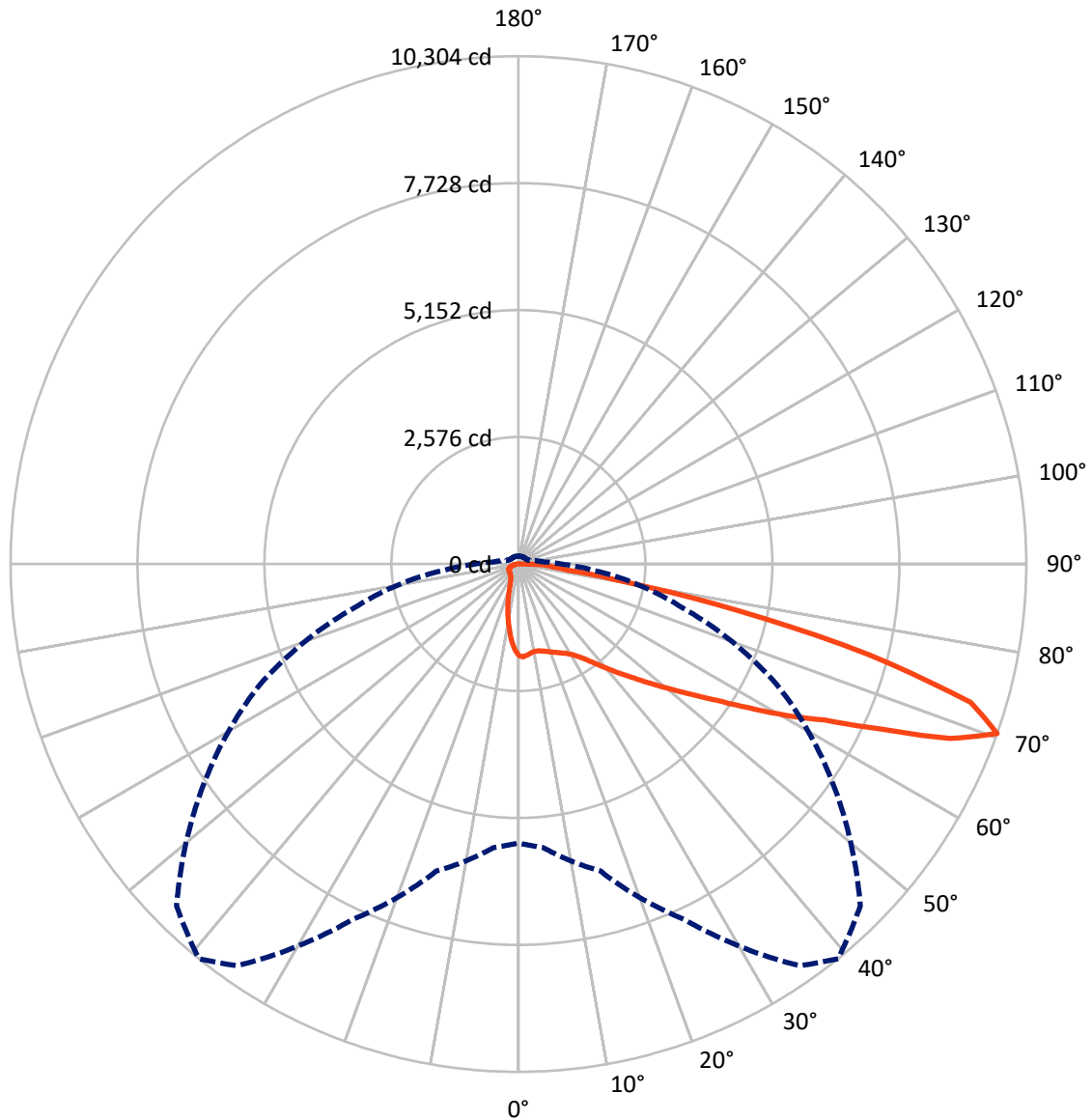
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193772
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL4-8030-600

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	1395.2	0.0	1395.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10871.8	0.0	10871.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	12267.0	0.0	12267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.3
10°-20°	399.5	3.3
20°-30°	622.0	5.1
30°-40°	969.0	7.9
40°-50°	1626.8	13.3
50°-60°	2584.3	21.1
60°-70°	3447.2	28.1
70°-80°	2081.7	17.0
80°-90°	376.8	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°	12267.0	100.0
0°-180°	12267.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193772

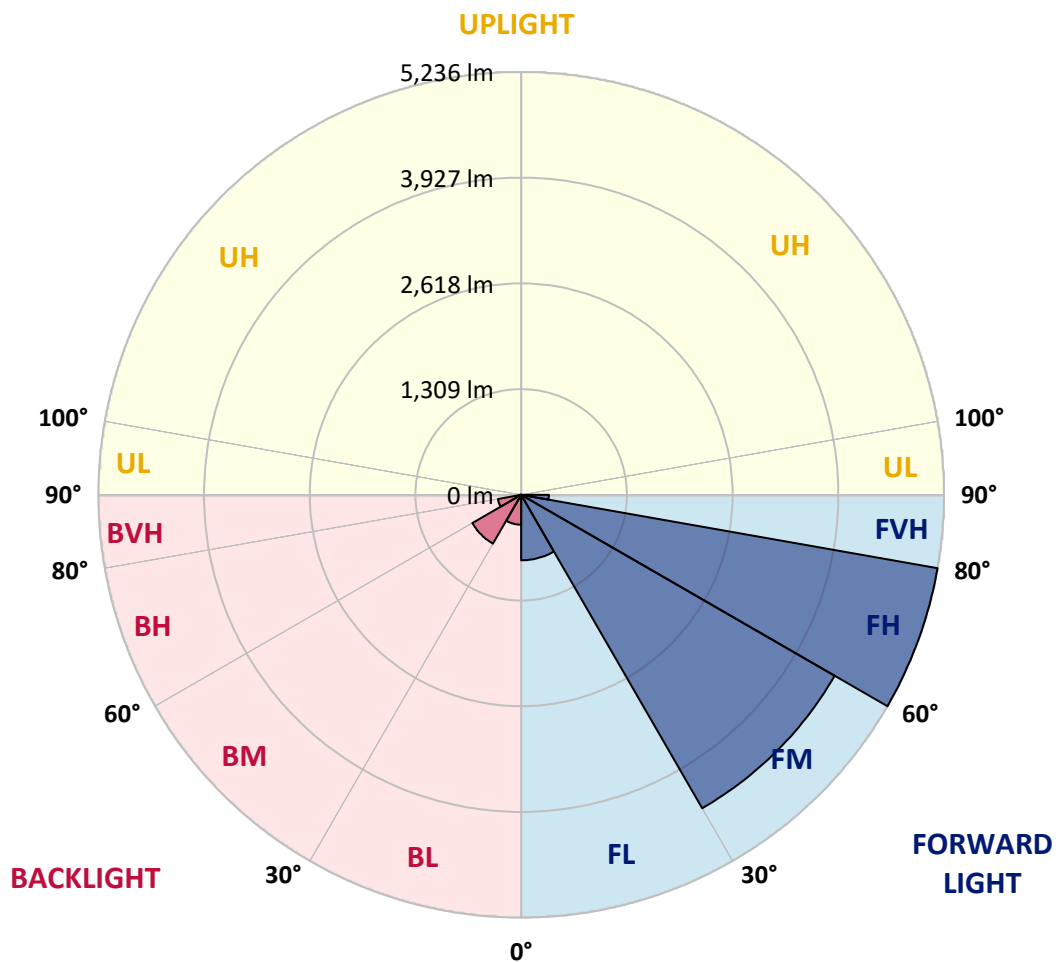
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.2	6.6			
FM	(30°-60°)	4481.9	36.5			
FH	(60°-80°)	5235.9	42.7			G3/7500
FVH	(80°-90°)	342.8	2.8			G3/500
BL	(0°-30°)	370.1	3.0	B1/500		
BM	(30°-60°)	698.2	5.7	B1/1000		
BH	(60°-80°)	292.9	2.4	B1/500		G1/500
BVH	(80°-90°)	34.0	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





REPORT NUMBER: P193772

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL4-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3
2.5°	1898.5	1897.9	1892.9	1889.1	1886.0	1884.8	1887.3	1877.9	1869.8	1859.8	1849.2
5°	1884.1	1883.5	1875.4	1867.9	1860.4	1858.0	1857.3	1840.5	1830.5	1815.5	1795.6
7.5°	1868.6	1865.4	1854.8	1842.4	1829.3	1823.0	1816.8	1795.0	1783.7	1768.8	1745.7
10°	1852.3	1848.6	1838.6	1826.1	1813.7	1804.3	1793.7	1772.5	1760.7	1749.4	1722.6
12.5°	1835.5	1832.4	1829.9	1824.3	1815.5	1807.4	1799.3	1781.2	1768.8	1755.7	1724.5
15°	1833.0	1831.8	1837.4	1841.1	1836.1	1831.1	1822.4	1806.8	1793.7	1780.6	1740.1
17.5°	1853.0	1852.3	1866.7	1876.7	1874.2	1865.4	1853.6	1836.1	1825.5	1814.3	1763.8
20°	1896.6	1899.7	1917.2	1930.3	1917.8	1905.4	1886.0	1861.7	1856.1	1851.1	1788.1
22.5°	1978.9	1982.1	1994.5	1999.5	1967.1	1949.0	1922.2	1891.0	1887.3	1891.0	1817.4
25°	2107.4	2104.3	2102.4	2083.7	2024.5	1996.4	1962.1	1929.7	1931.5	1948.4	1858.6
27.5°	2277.7	2260.9	2234.7	2178.5	2084.4	2053.2	2011.4	1981.4	1993.3	2025.7	1920.3
30°	2454.2	2435.5	2375.0	2283.3	2162.9	2128.6	2081.9	2048.2	2079.4	2130.5	2002.6
32.5°	2617.6	2615.1	2526.5	2408.7	2271.5	2241.5	2194.7	2156.7	2207.2	2285.2	2126.1
35°	2796.0	2801.6	2695.6	2554.0	2418.0	2386.8	2353.2	2324.5	2391.8	2499.1	2305.1
37.5°	2986.8	2998.0	2872.7	2713.0	2585.2	2572.1	2552.1	2539.6	2643.8	2792.2	2555.2
40°	3241.9	3230.7	3056.7	2892.6	2790.4	2789.7	2783.5	2798.5	2971.9	3175.2	2876.4
42.5°	3515.1	3482.0	3251.9	3085.4	3015.5	3036.7	3049.2	3110.3	3366.6	3640.4	3268.1
45°	3809.5	3735.2	3454.6	3289.3	3265.6	3310.5	3352.9	3485.8	3831.3	4170.0	3697.2
47.5°	4044.6	3972.9	3664.1	3503.2	3555.0	3623.0	3704.7	3914.9	4351.4	4716.9	4120.7
50°	4229.8	4183.0	3875.6	3752.7	3873.7	3978.5	4111.9	4400.7	4892.8	5249.5	4513.0
52.5°	4409.4	4374.5	4088.9	4008.4	4247.9	4392.6	4574.1	4922.1	5447.9	5773.4	4842.9
55°	4571.6	4546.7	4318.4	4327.1	4688.2	4876.6	5104.9	5515.9	6052.9	6240.6	5122.3
57.5°	4754.3	4722.5	4580.3	4726.9	5253.9	5498.4	5795.3	6183.2	6620.4	6656.0	5335.0
60°	4938.3	4910.9	4871.0	5188.4	5972.4	6229.4	6510.6	6830.0	7196.1	6978.4	5322.5
62.5°	5098.0	5101.1	5171.6	5673.0	6675.9	6973.4	7316.4	7632.0	7716.8	7034.5	4929.0
65°	5368.7	5417.9	5628.1	6359.1	7666.3	8064.2	8485.2	8434.7	7860.9	6510.0	4085.1
67.5°	5690.5	5777.2	6203.2	7273.4	8918.1	9446.3	9609.1	8616.2	7284.0	5292.0	2912.0
70°	5658.1	5777.2	6451.4	7955.1	9949.6	10303.9	9809.9	7797.9	5784.0	3457.1	1546.7
72.5°	5024.4	5194.7	5945.6	7642.6	9624.7	9593.5	8516.4	5813.4	3436.5	1388.3	604.3
75°	3829.4	4001.6	4647.7	6037.9	7607.1	7345.1	6042.9	3211.3	1304.1	551.3	381.1
77.5°	2202.9	2336.3	2835.3	3702.8	4826.1	4557.3	3363.5	1428.2	634.9	384.2	297.5
80°	1229.9	1304.1	1607.2	1878.5	2365.0	2167.9	1504.9	887.5	474.0	278.8	229.5
82.5°	972.3	1038.4	1299.8	1185.0	1080.2	996.6	864.4	790.2	378.6	175.9	137.2
85°	849.5	912.4	1100.2	933.0	737.8	676.7	702.3	777.7	294.4	106.0	117.3
87.5°	787.1	871.3	980.4	719.1	574.4	508.9	648.0	852.6	94.8	66.1	47.4
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°	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3	1862.3
2.5°	1839.9	1829.9	1813.7	1799.3	1776.9	1765.0	1751.9	1742.6	1735.1	1728.9	1738.8
5°	1783.1	1764.4	1730.1	1693.3	1649.6	1615.3	1586.7	1559.8	1541.1	1528.6	1537.4
7.5°	1729.5	1698.9	1645.3	1578.5	1503.7	1440.1	1387.7	1341.5	1309.7	1289.2	1297.3
10°	1698.9	1660.9	1577.9	1473.1	1362.7	1263.6	1181.3	1110.2	1060.9	1032.8	1037.2
12.5°	1691.4	1642.2	1527.4	1383.3	1232.4	1094.6	978.6	880.0	810.8	774.6	775.9
15°	1697.0	1634.1	1480.0	1297.3	1106.4	932.4	787.7	668.0	587.5	546.3	545.7
17.5°	1706.4	1627.8	1430.1	1204.3	978.6	776.5	615.0	497.7	426.6	393.5	391.0
20°	1716.4	1617.8	1374.0	1103.9	845.7	631.8	481.5	389.8	344.9	326.8	325.6
22.5°	1730.7	1609.1	1316.0	997.9	715.4	514.5	396.0	334.3	310.6	301.2	300.0
25°	1753.8	1604.7	1254.2	887.5	598.1	430.3	344.9	306.9	293.1	286.9	286.3
27.5°	1792.5	1611.0	1196.2	780.2	502.7	373.6	316.2	293.1	283.2	277.5	276.9
30°	1842.4	1630.3	1135.1	678.6	428.5	334.9	298.7	283.8	275.7	270.1	270.1
32.5°	1925.3	1662.7	1070.9	590.6	375.5	308.1	285.6	275.7	268.8	264.4	263.8
35°	2047.6	1723.9	1011.0	517.7	337.4	288.8	274.4	266.9	261.9	259.5	259.5
37.5°	2225.3	1820.5	958.0	465.3	314.3	275.7	263.8	258.2	255.1	255.1	255.1
40°	2464.2	1954.0	914.9	430.3	301.2	266.3	255.7	251.3	249.5	250.1	250.1
42.5°	2759.2	2127.4	886.3	406.0	295.0	260.7	250.1	246.4	244.5	243.9	244.5
45°	3095.3	2324.5	883.1	387.9	288.8	257.0	246.4	242.6	238.9	236.4	236.4
47.5°	3422.2	2524.7	908.7	381.7	281.9	252.6	243.2	239.5	233.9	228.3	228.3
50°	3710.9	2694.9	943.0	384.2	279.4	246.4	238.2	236.4	227.6	221.4	220.8
52.5°	3940.4	2825.9	971.1	391.7	281.9	242.0	232.0	232.6	223.3	216.4	215.8
55°	4124.4	2912.0	963.6	399.2	287.5	239.5	226.4	227.6	220.2	213.3	213.3
57.5°	4204.9	2880.2	880.6	392.9	291.9	240.1	222.0	227.0	220.8	214.5	214.5
60°	4032.1	2597.6	725.3	365.5	286.3	238.2	220.2	229.5	228.9	222.7	222.0
62.5°	3509.5	2091.8	562.6	324.9	266.9	228.9	215.2	228.9	235.8	233.9	233.3
65°	2704.9	1490.0	429.7	281.3	240.7	213.3	202.1	214.5	223.9	226.4	225.8
67.5°	1755.7	913.1	331.2	240.1	211.4	195.2	185.2	190.8	192.7	192.7	191.5
70°	863.2	491.5	263.8	202.1	181.5	175.9	170.3	167.1	164.0	161.5	161.5
72.5°	426.0	321.2	217.0	170.9	156.5	154.0	152.8	149.1	146.6	143.4	142.2
75°	315.0	261.3	184.6	144.1	134.7	132.2	134.7	131.6	131.0	128.5	127.2
77.5°	258.8	222.7	159.0	123.5	115.4	111.0	114.8	115.4	116.0	112.3	111.0
80°	210.2	188.4	132.8	102.3	94.8	91.7	94.2	99.2	100.4	94.8	92.3
82.5°	151.6	154.0	107.3	79.8	73.6	71.1	76.1	82.3	83.6	75.5	73.6
85°	127.2	128.5	82.3	56.8	50.5	46.8	54.9	61.1	65.5	57.4	55.5
87.5°	53.0	75.5	47.4	31.8	28.1	24.3	29.3	32.4	39.3	36.2	35.5
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)