

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: P192041

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192041
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-03-LED-E1-SL4-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA 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: 13951 lumens
Efficiency: N/A
Efficacy: 112.5 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

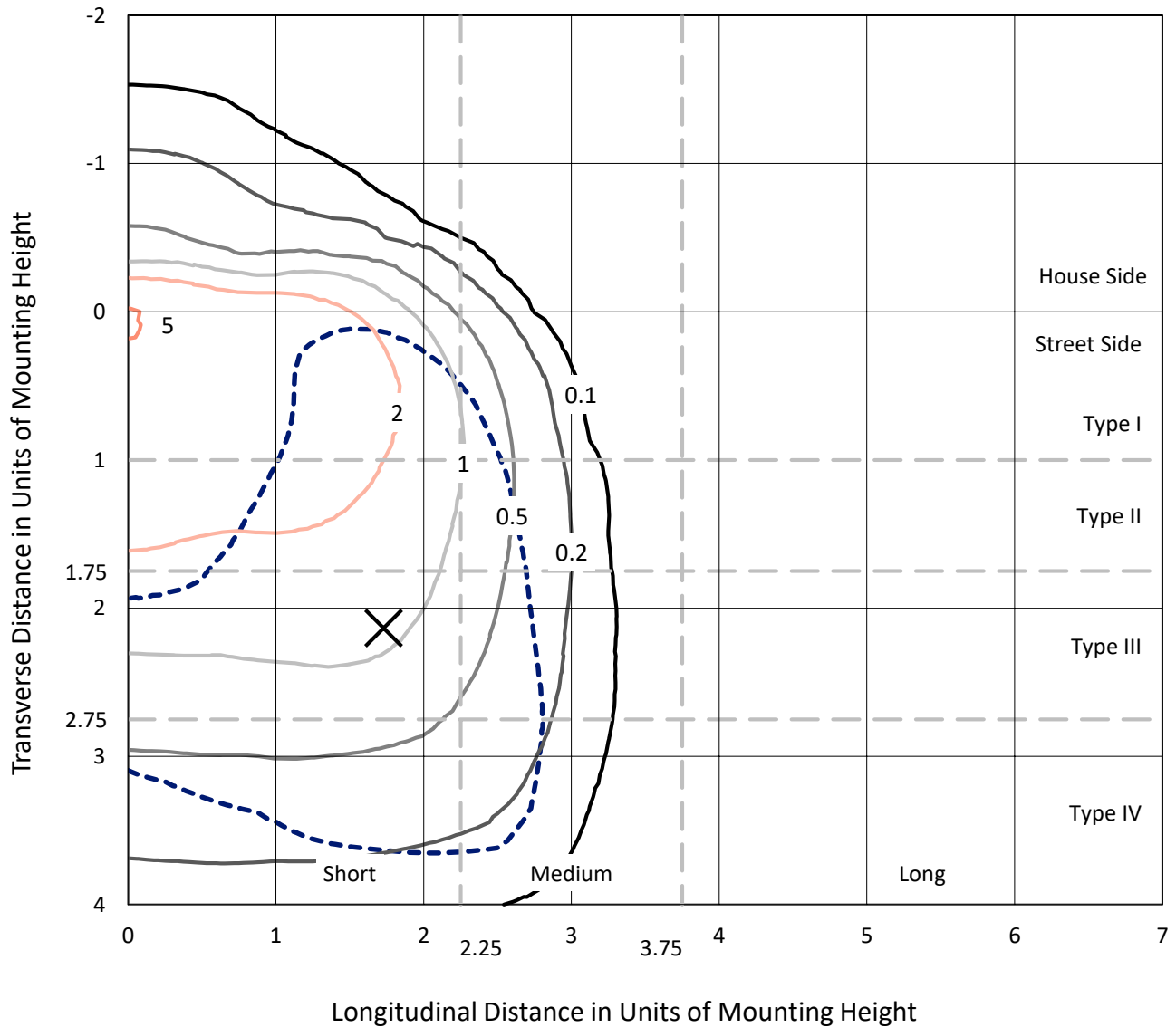
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

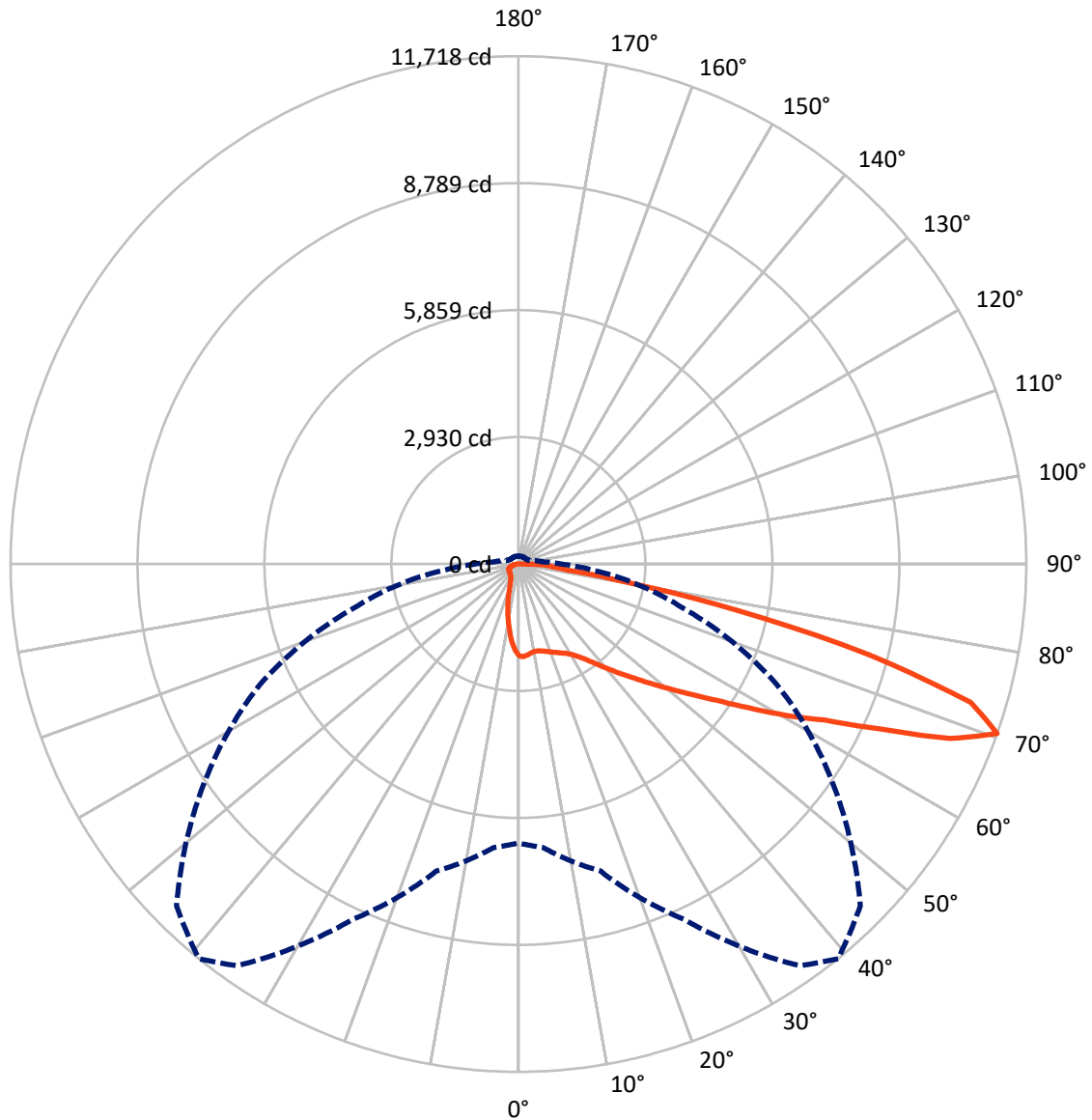
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	1586.7	0.0	1586.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	12364.3	0.0	12364.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	13951.0	0.0	13951.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.3
10°-20°	454.3	3.3
20°-30°	707.4	5.1
30°-40°	1102.0	7.9
40°-50°	1850.1	13.3
50°-60°	2939.1	21.1
60°-70°	3920.4	28.1
70°-80°	2367.4	17.0
80°-90°	428.5	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°	13951.0	100.0
0°-180°	13951.0	100.0



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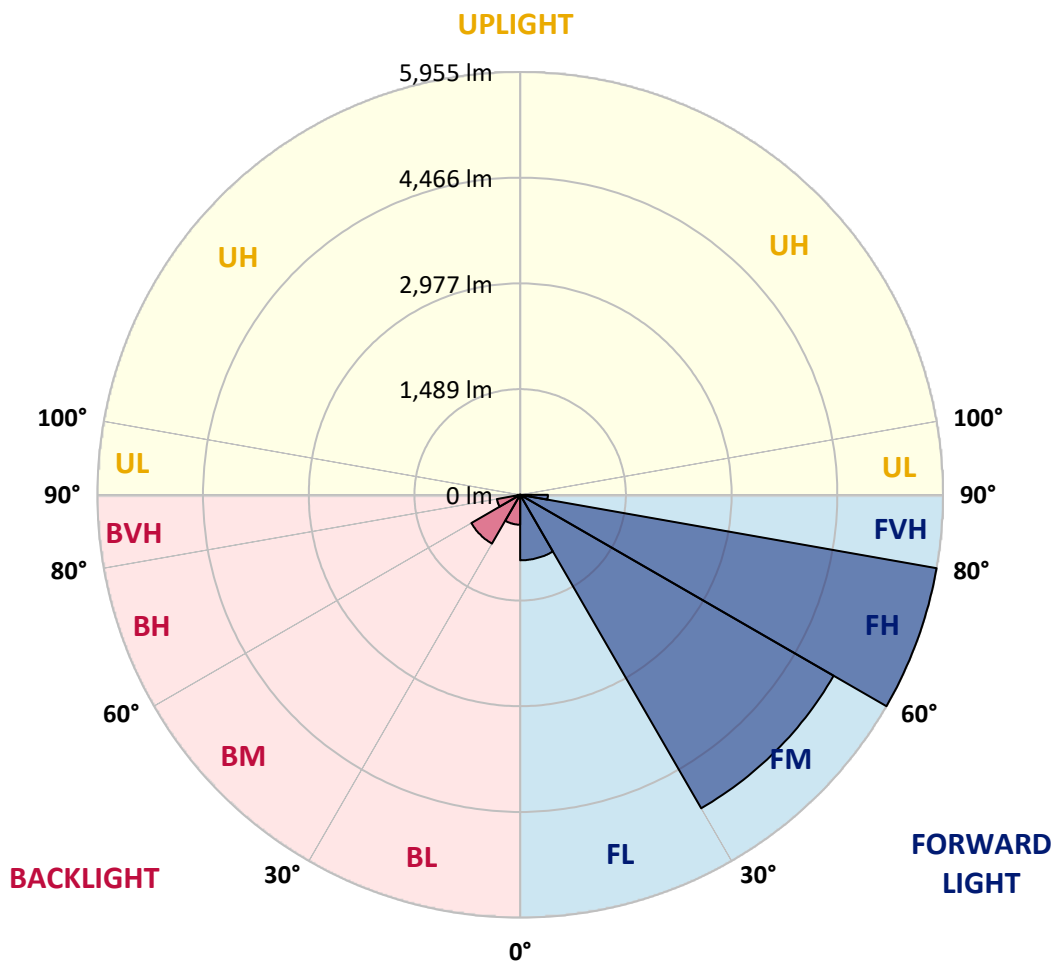
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.6	6.6			
FM (30°-60°)	5097.2	36.5			
FH (60°-80°)	5954.7	42.7			G3/7500
FVH (80°-90°)	389.9	2.8			G3/500
BL (0°-30°)	420.9	3.0	B1/500		
BM (30°-60°)	794.1	5.7	B1/1000		
BH (60°-80°)	333.1	2.4	B1/500		G1/500
BVH (80°-90°)	38.6	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°	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0
2.5°	2159.1	2158.4	2152.7	2148.5	2144.9	2143.5	2146.4	2135.7	2126.5	2115.1	2103.1
5°	2142.8	2142.1	2132.9	2124.4	2115.9	2113.0	2112.3	2093.2	2081.8	2064.8	2042.1
7.5°	2125.1	2121.5	2109.5	2095.3	2080.4	2073.3	2066.2	2041.4	2028.6	2011.6	1985.3
10°	2106.6	2102.4	2091.0	2076.8	2062.7	2052.0	2040.0	2015.8	2002.4	1989.6	1959.1
12.5°	2087.5	2083.9	2081.1	2074.7	2064.8	2055.6	2046.3	2025.8	2011.6	1996.7	1961.2
15°	2084.6	2083.2	2089.6	2093.9	2088.2	2082.5	2072.6	2054.9	2040.0	2025.1	1979.0
17.5°	2107.3	2106.6	2122.9	2134.3	2131.5	2121.5	2108.0	2088.2	2076.1	2063.4	2005.9
20°	2157.0	2160.5	2180.4	2195.3	2181.1	2166.9	2144.9	2117.3	2110.9	2105.2	2033.6
22.5°	2250.6	2254.2	2268.4	2274.0	2237.1	2216.6	2186.1	2150.6	2146.4	2150.6	2066.9
25°	2396.7	2393.2	2391.1	2369.8	2302.4	2270.5	2231.5	2194.6	2196.7	2215.9	2113.7
27.5°	2590.4	2571.2	2541.4	2477.6	2370.5	2335.0	2287.5	2253.5	2266.9	2303.8	2183.9
30°	2791.1	2769.8	2701.0	2596.8	2459.9	2420.9	2367.7	2329.4	2364.8	2423.0	2277.6
32.5°	2976.9	2974.1	2873.4	2739.3	2583.3	2549.2	2496.0	2452.8	2510.2	2598.9	2418.0
35°	3179.8	3186.2	3065.6	2904.6	2750.0	2714.5	2676.2	2643.6	2720.2	2842.2	2621.6
37.5°	3396.9	3409.6	3267.0	3085.5	2940.1	2925.2	2902.5	2888.3	3006.7	3175.5	2906.0
40°	3687.0	3674.2	3476.3	3289.7	3173.4	3172.7	3165.6	3182.6	3379.8	3611.1	3271.3
42.5°	3997.6	3960.0	3698.3	3508.9	3429.5	3453.6	3467.8	3537.3	3828.8	4140.2	3716.7
45°	4332.4	4248.0	3928.8	3740.9	3713.9	3765.0	3813.2	3964.3	4357.2	4742.4	4204.7
47.5°	4599.8	4518.3	4167.2	3984.2	4043.0	4120.3	4213.3	4452.3	4948.8	5364.5	4686.4
50°	4810.5	4757.3	4407.6	4267.9	4405.5	4524.6	4676.4	5004.8	5564.5	5970.2	5132.5
52.5°	5014.8	4975.0	4650.2	4558.7	4831.1	4995.6	5202.0	5597.8	6195.8	6566.0	5507.7
55°	5199.2	5170.8	4911.2	4921.1	5331.8	5546.0	5805.6	6273.1	6883.8	7097.3	5825.5
57.5°	5407.0	5370.8	5209.1	5375.8	5975.2	6253.2	6590.8	7032.0	7529.2	7569.7	6067.4
60°	5616.3	5585.0	5539.7	5900.7	6792.3	7084.5	7404.4	7767.6	8183.9	7936.4	6053.2
62.5°	5797.8	5801.4	5881.5	6451.8	7592.4	7930.7	8320.8	8679.7	8776.2	8000.2	5605.6
65°	6105.7	6161.7	6400.7	7232.1	8718.7	9171.3	9650.1	9592.6	8940.1	7403.7	4645.9
67.5°	6471.7	6570.3	7054.7	8271.9	10142.3	10743.1	10928.2	9799.0	8283.9	6018.4	3311.7
70°	6434.8	6570.3	7337.0	9047.2	11315.5	11718.4	11156.6	8868.4	6578.1	3931.7	1759.1
72.5°	5714.1	5907.8	6761.8	8691.8	10946.0	10910.5	9685.5	6611.4	3908.3	1578.9	687.3
75°	4355.1	4550.9	5285.7	6866.8	8651.4	8353.5	6872.4	3652.2	1483.2	627.0	433.4
77.5°	2505.3	2657.0	3224.5	4211.1	5488.6	5182.9	3825.3	1624.3	722.1	436.9	338.3
80°	1398.7	1483.2	1827.9	2136.4	2689.7	2465.5	1711.5	1009.3	539.1	317.1	261.0
82.5°	1105.8	1181.0	1478.2	1347.7	1228.5	1133.5	983.1	898.7	430.5	200.0	156.0
85°	966.1	1037.7	1251.2	1061.1	839.1	769.6	798.7	884.5	334.8	120.6	133.3
87.5°	895.1	990.9	1115.0	817.8	653.3	578.8	737.0	969.6	107.8	75.2	53.9
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°	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0
2.5°	2092.4	2081.1	2062.7	2046.3	2020.8	2007.3	1992.4	1981.8	1973.3	1966.2	1977.5
5°	2027.9	2006.6	1967.6	1925.8	1876.1	1837.1	1804.5	1774.0	1752.7	1738.5	1748.4
7.5°	1966.9	1932.1	1871.1	1795.2	1710.1	1637.8	1578.2	1525.7	1489.5	1466.1	1475.3
10°	1932.1	1888.9	1794.5	1675.4	1549.8	1437.0	1343.4	1262.6	1206.5	1174.6	1179.6
12.5°	1923.6	1867.6	1737.1	1573.2	1401.6	1244.8	1112.9	1000.8	922.1	881.0	882.4
15°	1930.0	1858.4	1683.2	1475.3	1258.3	1060.4	895.8	759.7	668.2	621.3	620.6
17.5°	1940.7	1851.3	1626.4	1369.7	1112.9	883.1	699.4	566.0	485.2	447.6	444.7
20°	1952.0	1839.9	1562.6	1255.5	961.8	718.5	547.6	443.3	392.2	371.7	370.3
22.5°	1968.3	1830.0	1496.6	1134.9	813.6	585.2	450.4	380.2	353.2	342.6	341.2
25°	1994.6	1825.0	1426.4	1009.3	680.2	489.4	392.2	349.0	333.4	326.3	325.6
27.5°	2038.5	1832.1	1360.4	887.3	571.7	424.9	359.6	333.4	322.0	315.6	314.9
30°	2095.3	1854.1	1290.9	771.7	487.3	380.9	339.8	322.7	313.5	307.1	307.1
32.5°	2189.6	1891.0	1217.9	671.7	427.0	350.4	324.9	313.5	305.7	300.7	300.0
35°	2328.6	1960.5	1149.8	588.7	383.7	328.4	312.1	303.6	297.9	295.1	295.1
37.5°	2530.8	2070.5	1089.5	529.1	357.5	313.5	300.0	293.7	290.1	290.1	290.1
40°	2802.5	2222.2	1040.5	489.4	342.6	302.9	290.8	285.8	283.7	284.4	284.4
42.5°	3138.0	2419.4	1007.9	461.8	335.5	296.5	284.4	280.2	278.0	277.3	278.0
45°	3520.3	2643.6	1004.4	441.2	328.4	292.2	280.2	275.9	271.7	268.8	268.8
47.5°	3891.9	2871.3	1033.5	434.1	320.6	287.3	276.6	272.4	266.0	259.6	259.6
50°	4220.4	3064.9	1072.5	436.9	317.8	280.2	271.0	268.8	258.9	251.8	251.1
52.5°	4481.4	3213.9	1104.4	445.4	320.6	275.2	263.9	264.6	253.9	246.1	245.4
55°	4690.6	3311.7	1095.9	454.0	327.0	272.4	257.5	258.9	250.4	242.6	242.6
57.5°	4782.1	3275.6	1001.5	446.9	332.0	273.1	252.5	258.2	251.1	244.0	244.0
60°	4585.6	2954.2	824.9	415.7	325.6	271.0	250.4	261.0	260.3	253.2	252.5
62.5°	3991.2	2379.0	639.8	369.5	303.6	260.3	244.7	260.3	268.1	266.0	265.3
65°	3076.2	1694.5	488.7	319.9	273.8	242.6	229.8	244.0	254.6	257.5	256.8
67.5°	1996.7	1038.4	376.6	273.1	240.5	222.0	210.7	217.0	219.2	219.2	217.8
70°	981.7	558.9	300.0	229.8	206.4	200.0	193.6	190.1	186.5	183.7	183.7
72.5°	484.5	365.3	246.8	194.3	178.0	175.2	173.8	169.5	166.7	163.1	161.7
75°	358.2	297.2	210.0	163.8	153.2	150.4	153.2	149.7	149.0	146.1	144.7
77.5°	294.4	253.2	180.9	140.4	131.2	126.3	130.5	131.2	131.9	127.7	126.3
80°	239.0	214.2	151.1	116.3	107.8	104.3	107.1	112.8	114.2	107.8	105.0
82.5°	172.4	175.2	122.0	90.8	83.7	80.9	86.5	93.6	95.0	85.8	83.7
85°	144.7	146.1	93.6	64.5	57.5	53.2	62.4	69.5	74.5	65.3	63.1
87.5°	60.3	85.8	53.9	36.2	31.9	27.7	33.3	36.9	44.7	41.1	40.4
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)