

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: P193791

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193791
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-SL4-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 14091 lumens
Efficiency: N/A
Efficacy: 84.9 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

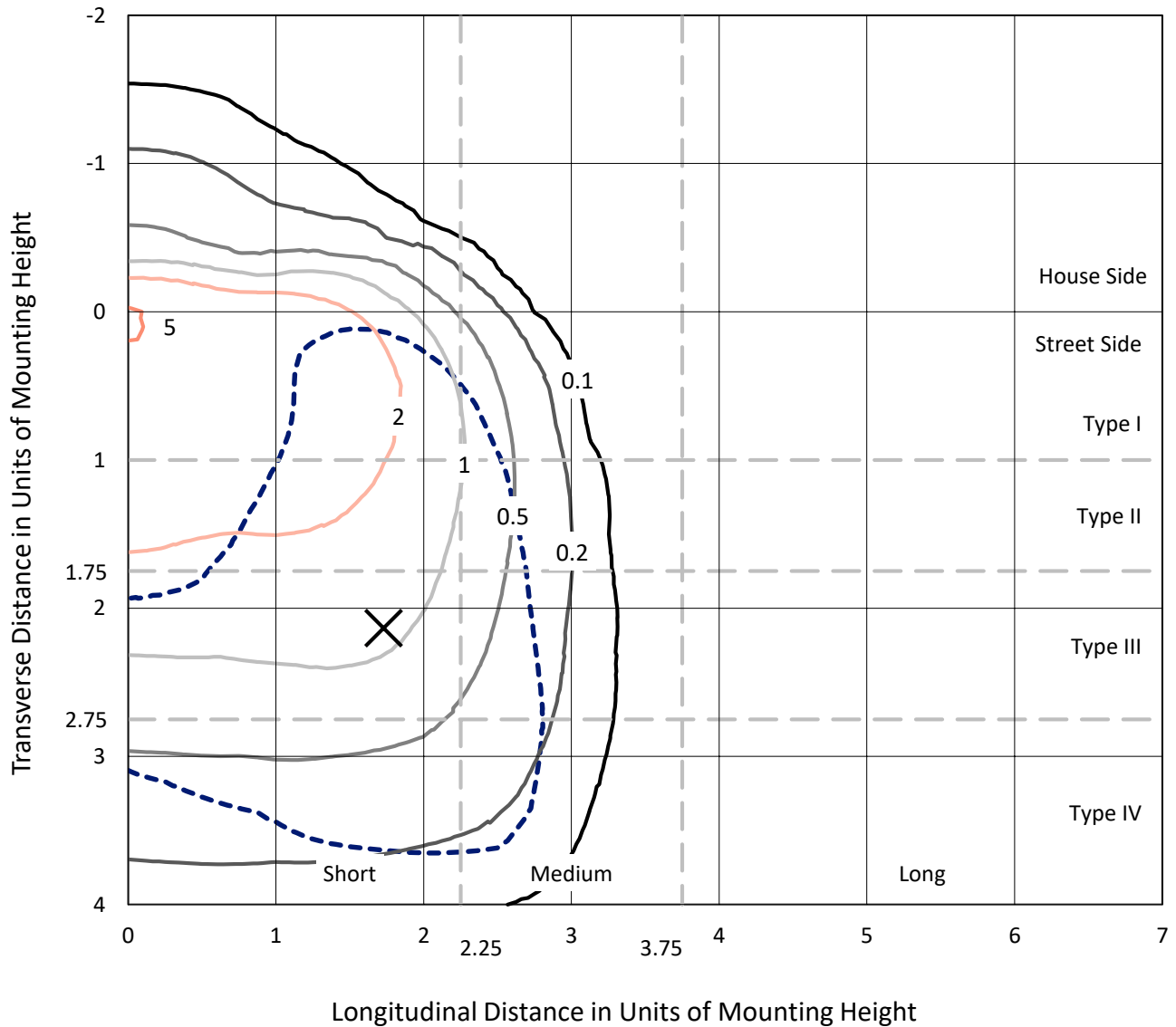
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

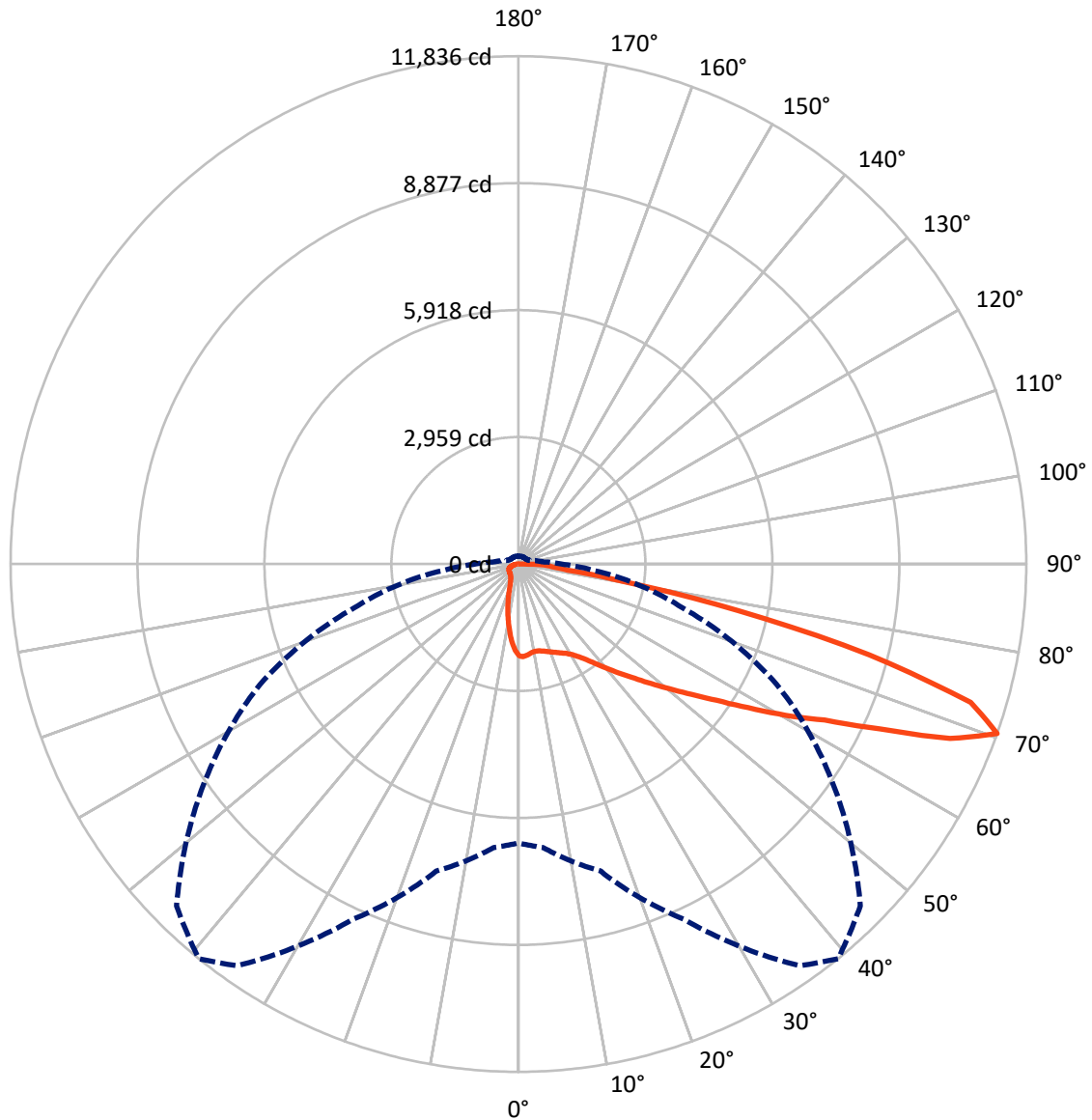
× Max cd
 - - - 1/2 Max cd



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	1602.6	0.0	1602.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	12488.4	0.0	12488.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	14091.0	0.0	14091.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.3
10°-20°	458.9	3.3
20°-30°	714.5	5.1
30°-40°	1113.1	7.9
40°-50°	1868.7	13.3
50°-60°	2968.6	21.1
60°-70°	3959.7	28.1
70°-80°	2391.2	17.0
80°-90°	432.8	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°	14091.0	100.0
0°-180°	14091.0	100.0



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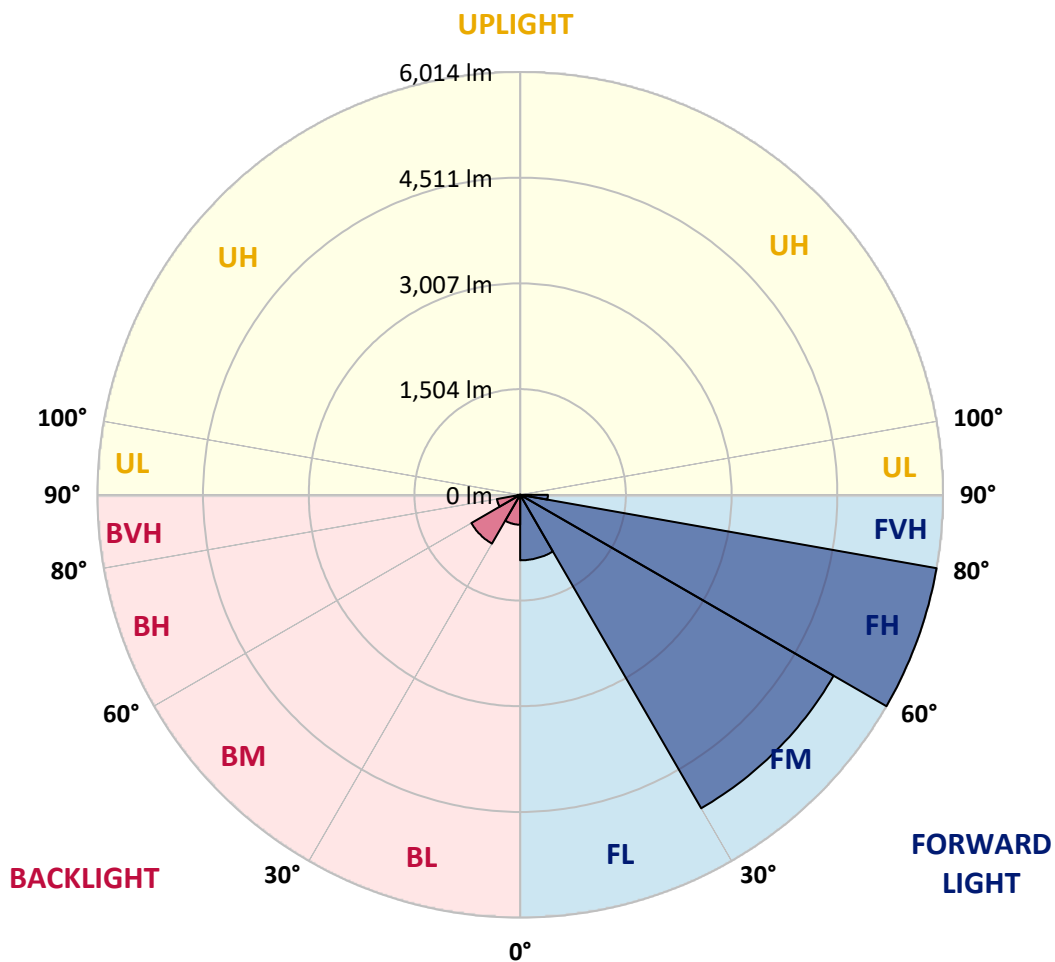
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	931.9	6.6			
FM	(30°-60°)	5148.3	36.5			
FH	(60°-80°)	6014.5	42.7			G3/7500
FVH	(80°-90°)	393.8	2.8			G3/500
BL	(0°-30°)	425.1	3.0	B1/500		
BM	(30°-60°)	802.0	5.7	B1/1000		
BH	(60°-80°)	336.5	2.4	B1/500		G1/500
BVH	(80°-90°)	39.0	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°	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2
2.5°	2180.8	2180.1	2174.3	2170.0	2166.5	2165.0	2167.9	2157.1	2147.8	2136.4	2124.2
5°	2164.3	2163.6	2154.3	2145.7	2137.1	2134.2	2133.5	2114.2	2102.7	2085.5	2062.6
7.5°	2146.4	2142.8	2130.6	2116.3	2101.3	2094.1	2086.9	2061.9	2049.0	2031.8	2005.3
10°	2127.8	2123.5	2112.0	2097.7	2083.4	2072.6	2060.4	2036.1	2022.5	2009.6	1978.8
12.5°	2108.4	2104.8	2102.0	2095.5	2085.5	2076.2	2066.9	2046.1	2031.8	2016.7	1980.9
15°	2105.6	2104.1	2110.6	2114.9	2109.1	2103.4	2093.4	2075.5	2060.4	2045.4	1998.8
17.5°	2128.5	2127.8	2144.2	2155.7	2152.8	2142.8	2129.2	2109.1	2097.0	2084.1	2026.0
20°	2178.6	2182.2	2202.3	2217.3	2203.0	2188.7	2166.5	2138.5	2132.1	2126.3	2054.0
22.5°	2273.2	2276.8	2291.1	2296.8	2259.6	2238.8	2208.0	2172.2	2167.9	2172.2	2087.6
25°	2420.8	2417.2	2415.1	2393.6	2325.5	2293.3	2253.9	2216.6	2218.8	2238.1	2134.9
27.5°	2616.4	2597.0	2566.9	2502.5	2394.3	2358.5	2310.5	2276.1	2289.7	2326.9	2205.9
30°	2819.1	2797.6	2728.1	2622.8	2484.5	2445.1	2391.4	2352.7	2388.5	2447.3	2300.4
32.5°	3006.8	3004.0	2902.2	2766.8	2609.2	2574.8	2521.1	2477.4	2535.4	2625.0	2442.3
35°	3211.7	3218.2	3096.4	2933.7	2777.6	2741.7	2703.1	2670.1	2747.5	2870.7	2647.9
37.5°	3430.9	3443.8	3299.8	3116.4	2969.6	2954.5	2931.6	2917.3	3036.9	3207.4	2935.2
40°	3724.0	3711.1	3511.2	3322.8	3205.3	3204.5	3197.4	3214.6	3413.7	3647.3	3304.1
42.5°	4037.7	3999.8	3735.4	3544.1	3463.9	3488.3	3502.6	3572.8	3867.2	4181.7	3754.0
45°	4375.9	4290.6	3968.3	3778.4	3751.2	3802.8	3851.5	4004.1	4401.0	4790.0	4246.9
47.5°	4646.0	4563.6	4209.0	4024.1	4083.6	4161.7	4255.5	4497.0	4998.5	5418.3	4733.4
50°	4858.8	4805.0	4451.8	4310.7	4449.7	4570.0	4723.4	5055.1	5620.3	6030.1	5184.0
52.5°	5065.1	5025.0	4696.9	4604.4	4879.5	5045.8	5254.2	5654.0	6257.9	6631.9	5563.0
55°	5251.4	5222.7	4960.5	4970.5	5385.3	5601.7	5863.9	6336.0	6952.9	7168.5	5884.0
57.5°	5461.3	5424.7	5261.4	5429.8	6035.1	6316.0	6657.0	7102.6	7604.8	7645.6	6128.3
60°	5672.6	5641.1	5595.2	5959.9	6860.4	7155.6	7478.7	7845.5	8266.1	8016.0	6113.9
62.5°	5856.0	5859.6	5940.6	6516.6	7668.6	8010.3	8404.3	8766.8	8864.3	8080.5	5661.9
65°	6166.9	6223.5	6465.0	7304.6	8806.2	9263.3	9746.9	9688.9	9029.8	7478.0	4692.6
67.5°	6536.6	6636.2	7125.5	8354.9	10244.1	10850.9	11037.9	9897.4	8367.1	6078.8	3345.0
70°	6499.4	6636.2	7410.7	9137.9	11429.1	11836.0	11268.6	8957.4	6644.1	3971.1	1776.7
72.5°	5771.5	5967.1	6829.6	8779.0	11055.8	11020.0	9782.7	6677.8	3947.5	1594.8	694.2
75°	4398.8	4596.6	5338.8	6935.7	8738.2	8437.3	6941.4	3688.9	1498.0	633.3	437.7
77.5°	2530.4	2683.7	3256.8	4253.4	5543.7	5234.9	3863.7	1640.6	729.3	441.3	341.7
80°	1412.8	1498.0	1846.2	2157.9	2716.7	2490.3	1728.7	1019.5	544.5	320.2	263.6
82.5°	1116.9	1192.8	1493.0	1361.2	1240.8	1144.8	993.0	907.7	434.9	202.0	157.6
85°	975.8	1048.1	1263.8	1071.8	847.5	777.3	806.7	893.4	338.2	121.8	134.7
87.5°	904.1	1000.8	1126.2	826.0	659.8	584.6	744.4	979.3	108.9	75.9	54.4
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°	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2	2139.2
2.5°	2113.4	2102.0	2083.4	2066.9	2041.1	2027.5	2012.4	2001.7	1993.1	1985.9	1997.4
5°	2048.2	2026.8	1987.4	1945.1	1894.9	1855.5	1822.6	1791.8	1770.3	1755.9	1766.0
7.5°	1986.6	1951.5	1889.9	1813.3	1727.3	1654.2	1594.0	1541.0	1504.5	1480.8	1490.2
10°	1951.5	1907.8	1812.5	1692.2	1565.4	1451.5	1356.9	1275.2	1218.6	1186.4	1191.4
12.5°	1942.9	1886.3	1754.5	1589.0	1415.6	1257.3	1124.1	1010.9	931.3	889.8	891.2
15°	1949.4	1877.0	1700.1	1490.2	1270.9	1071.0	904.8	767.3	674.9	627.6	626.9
17.5°	1960.1	1869.9	1642.8	1383.4	1124.1	891.9	706.4	571.7	490.0	452.1	449.2
20°	1971.6	1858.4	1578.3	1268.1	971.5	725.7	553.1	447.8	396.2	375.4	374.0
22.5°	1988.1	1848.4	1511.6	1146.3	821.7	591.0	454.9	384.0	356.8	346.0	344.6
25°	2014.6	1843.4	1440.7	1019.5	687.0	494.3	396.2	352.5	336.7	329.6	328.8
27.5°	2059.0	1850.5	1374.1	896.2	577.4	429.1	363.2	336.7	325.3	318.8	318.1
30°	2116.3	1872.7	1303.9	779.5	492.2	384.7	343.2	326.0	316.7	310.2	310.2
32.5°	2211.6	1910.0	1230.1	678.5	431.3	353.9	328.1	316.7	308.8	303.8	303.0
35°	2352.0	1980.2	1161.3	594.6	387.6	331.7	315.2	306.6	300.9	298.0	298.0
37.5°	2556.2	2091.2	1100.4	534.4	361.1	316.7	303.0	296.6	293.0	293.0	293.0
40°	2830.6	2244.5	1051.0	494.3	346.0	305.9	293.7	288.7	286.6	287.3	287.3
42.5°	3169.4	2443.7	1018.0	466.4	338.9	299.5	287.3	283.0	280.8	280.1	280.8
45°	3555.6	2670.1	1014.5	445.6	331.7	295.2	283.0	278.7	274.4	271.5	271.5
47.5°	3931.0	2900.1	1043.8	438.4	323.8	290.2	279.4	275.1	268.7	262.2	262.2
50°	4262.7	3095.7	1083.2	441.3	321.0	283.0	273.7	271.5	261.5	254.3	253.6
52.5°	4526.3	3246.1	1115.5	449.9	323.8	278.0	266.5	267.2	256.5	248.6	247.9
55°	4737.7	3345.0	1106.9	458.5	330.3	275.1	260.1	261.5	252.9	245.0	245.0
57.5°	4830.1	3308.4	1011.6	451.3	335.3	275.8	255.0	260.8	253.6	246.4	246.4
60°	4631.7	2983.9	833.2	419.8	328.8	273.7	252.9	263.6	262.9	255.8	255.0
62.5°	4031.3	2402.9	646.2	373.3	306.6	262.9	247.2	262.9	270.8	268.7	267.9
65°	3107.1	1711.5	493.6	323.1	276.5	245.0	232.1	246.4	257.2	260.1	259.3
67.5°	2016.7	1048.8	380.4	275.8	242.9	224.2	212.8	219.2	221.4	221.4	219.9
70°	991.5	564.5	303.0	232.1	208.5	202.0	195.6	192.0	188.4	185.6	185.6
72.5°	489.3	369.0	249.3	196.3	179.8	177.0	175.5	171.2	168.4	164.8	163.3
75°	361.8	300.2	212.1	165.5	154.7	151.9	154.7	151.2	150.4	147.6	146.1
77.5°	297.3	255.8	182.7	141.9	132.5	127.5	131.8	132.5	133.3	129.0	127.5
80°	241.4	216.4	152.6	117.5	108.9	105.3	108.2	113.9	115.3	108.9	106.0
82.5°	174.1	177.0	123.2	91.7	84.5	81.7	87.4	94.6	96.0	86.7	84.5
85°	146.1	147.6	94.6	65.2	58.0	53.7	63.0	70.2	75.2	65.9	63.8
87.5°	60.9	86.7	54.4	36.5	32.2	27.9	33.7	37.3	45.1	41.6	40.8
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)