

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: STREETWORKS

Report Number: P192981

Luminaire Tested: **GAN-AF-03-LED-U-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192981
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: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 13492.4 lumens
Efficiency: N/A
Efficacy: 108.8 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

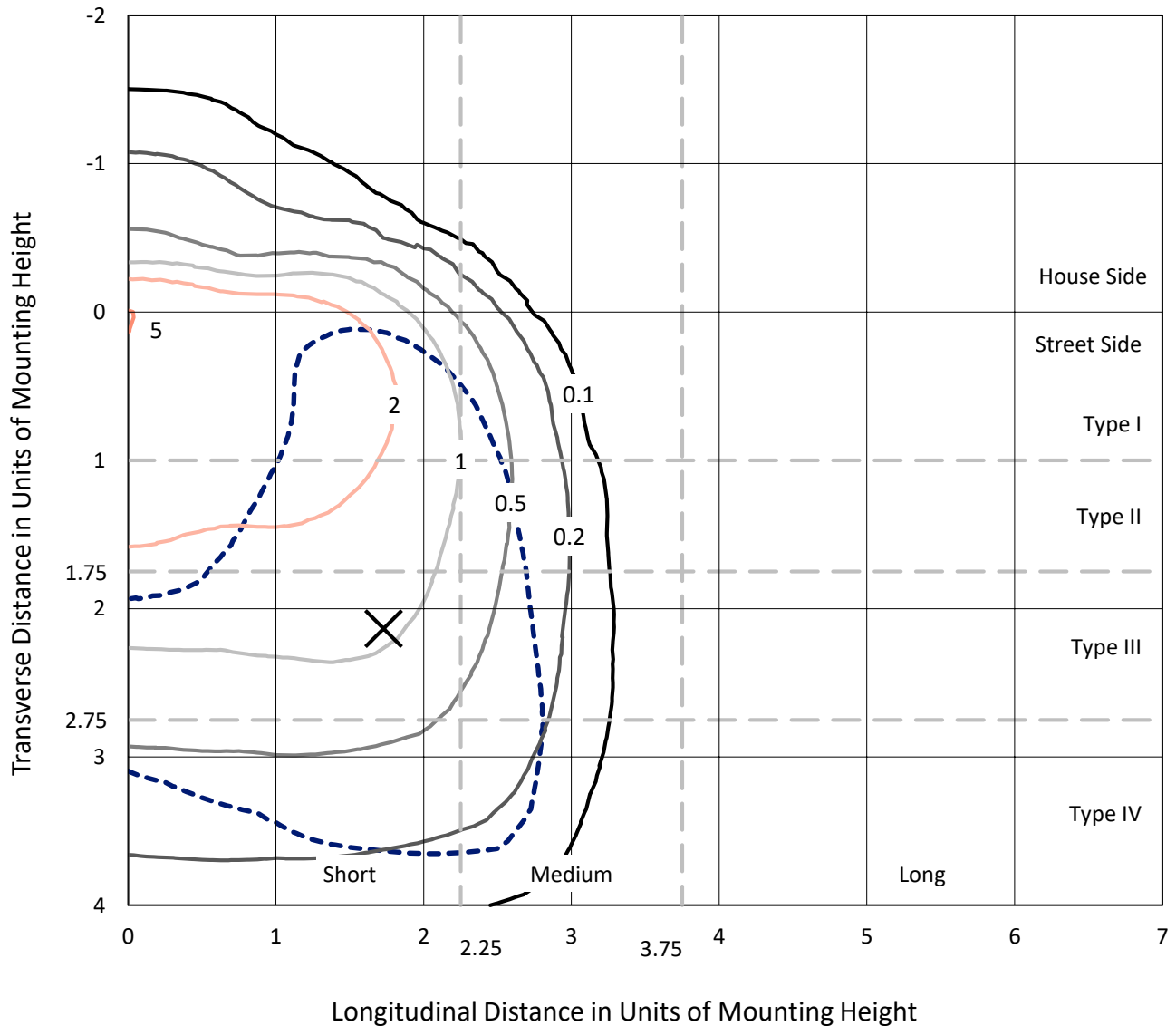
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

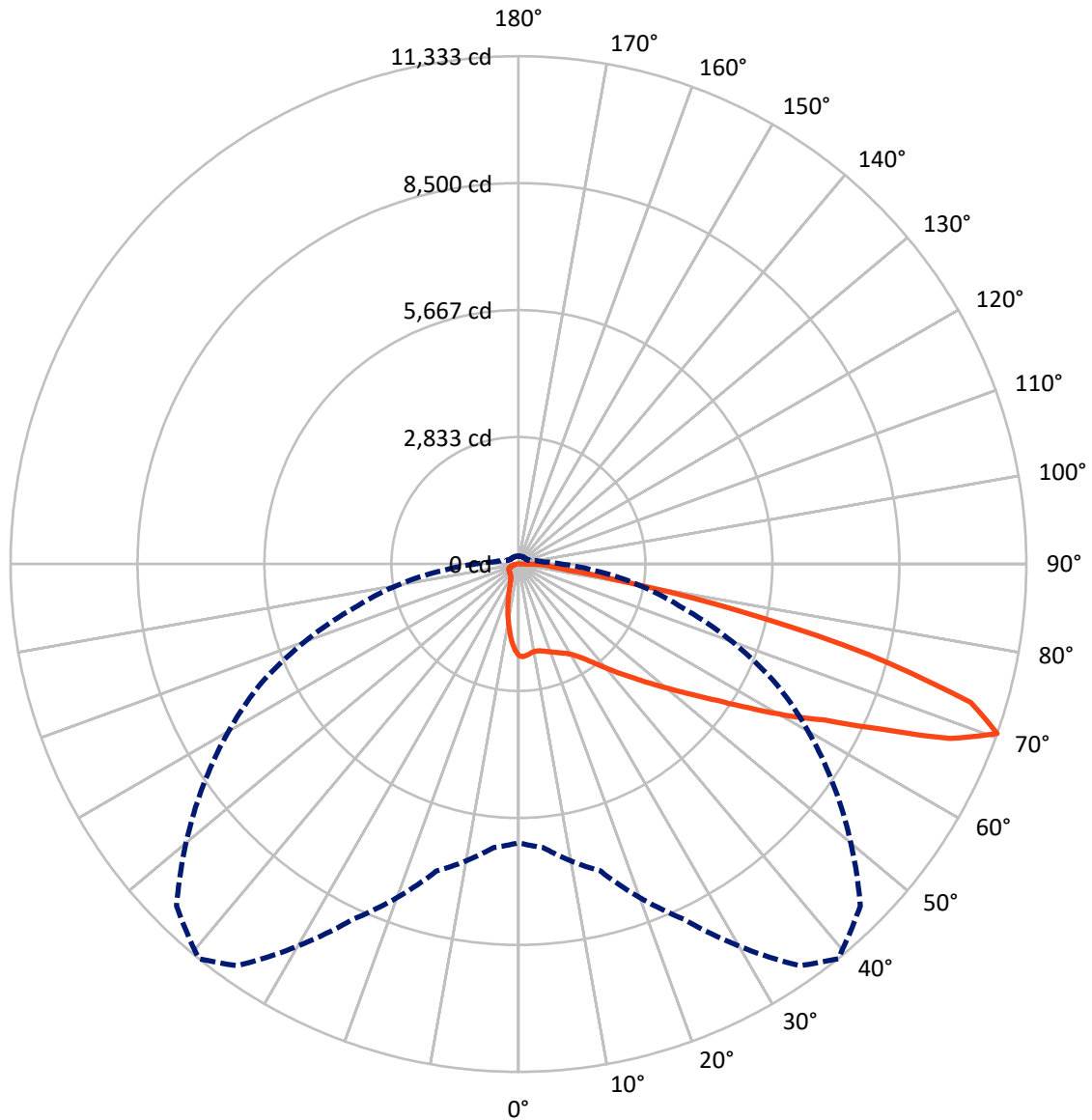
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	1534.6	0.0	1534.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	11957.9	0.0	11957.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	13492.4	0.0	13492.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.3
10°-20°	439.4	3.3
20°-30°	684.2	5.1
30°-40°	1065.8	7.9
40°-50°	1789.3	13.3
50°-60°	2842.5	21.1
60°-70°	3791.5	28.1
70°-80°	2289.6	17.0
80°-90°	414.4	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°	13492.4	100.0
0°-180°	13492.4	100.0

Coefficient of Utilization



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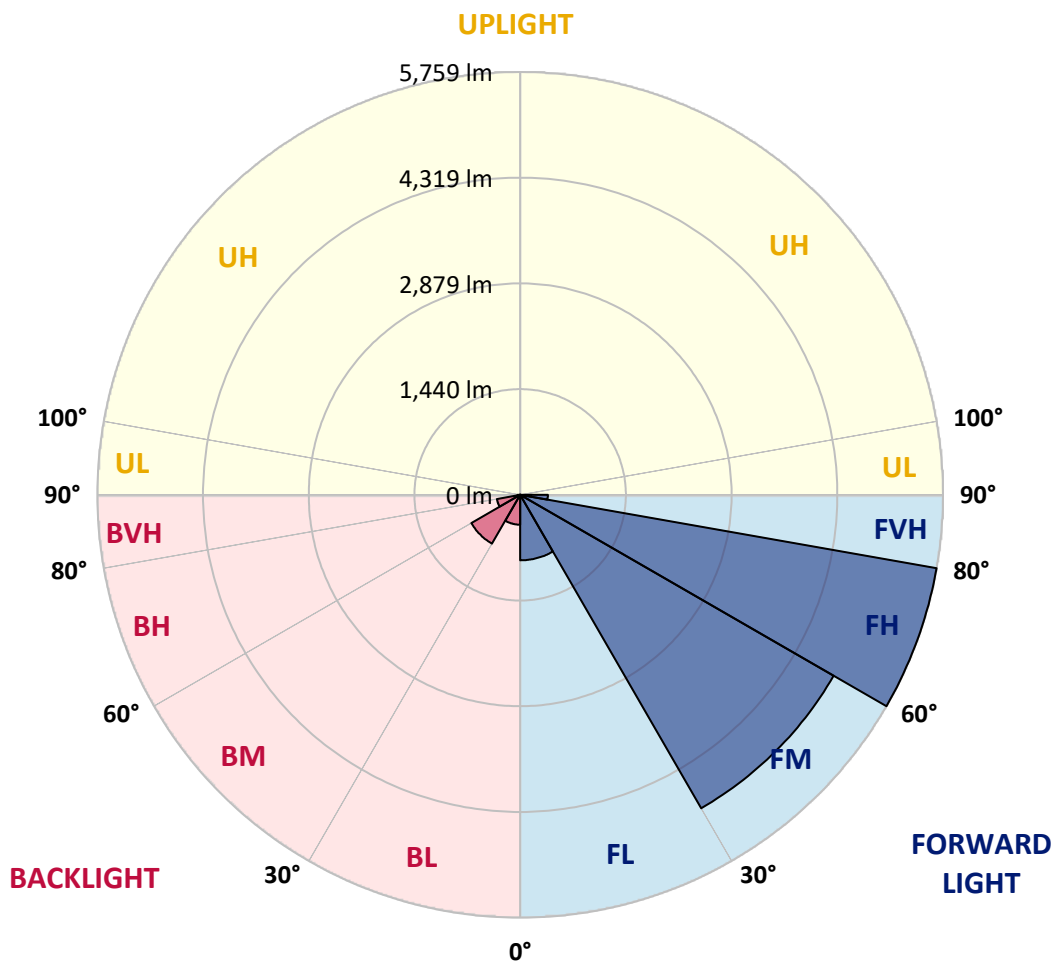
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.3	6.6			
FM	(30°-60°)	4929.6	36.5			
FH	(60°-80°)	5759.0	42.7			G3/7500
FVH	(80°-90°)	377.0	2.8			G3/500
BL	(0°-30°)	407.1	3.0	B1/500		
BM	(30°-60°)	768.0	5.7	B1/1000		
BH	(60°-80°)	322.2	2.4	B1/500		G1/500
BVH	(80°-90°)	37.4	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°	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	2088.2	2087.5	2081.9	2077.9	2074.4	2073.0	2075.8	2065.5	2056.6	2045.7	2034.0
5°	2072.3	2071.7	2062.9	2054.5	2046.3	2043.5	2042.8	2024.3	2013.3	1996.9	1975.0
7.5°	2055.1	2051.8	2040.1	2026.4	2012.0	2005.1	1998.3	1974.4	1962.0	1945.5	1920.1
10°	2037.3	2033.4	2022.3	2008.6	1994.8	1984.5	1972.9	1949.6	1936.5	1924.2	1894.7
12.5°	2018.9	2015.4	2012.7	2006.5	1996.9	1988.0	1979.1	1959.1	1945.5	1931.0	1896.7
15°	2016.2	2014.7	2021.0	2025.0	2019.5	2014.0	2004.5	1987.3	1972.9	1958.5	1913.9
17.5°	2038.1	2037.3	2053.2	2064.1	2061.4	2051.8	2038.8	2019.5	2007.8	1995.5	1940.0
20°	2086.1	2089.5	2108.7	2123.1	2109.4	2095.7	2074.4	2047.6	2041.5	2036.0	1966.7
22.5°	2176.7	2180.0	2193.8	2199.3	2163.6	2143.6	2114.1	2080.0	2075.8	2080.0	1999.0
25°	2317.9	2314.5	2312.5	2291.9	2226.7	2195.9	2158.1	2122.5	2124.5	2143.0	2044.2
27.5°	2505.2	2486.7	2457.9	2396.2	2292.6	2258.3	2212.3	2179.4	2192.4	2228.2	2112.2
30°	2699.4	2678.8	2612.3	2511.5	2379.0	2341.3	2289.8	2252.8	2287.2	2343.3	2202.6
32.5°	2879.1	2876.4	2778.9	2649.3	2498.3	2465.4	2414.0	2372.1	2427.7	2513.5	2338.5
35°	3075.3	3081.4	2964.9	2809.2	2659.6	2625.3	2588.3	2556.6	2630.8	2748.8	2535.4
37.5°	3285.2	3297.6	3159.7	2984.1	2843.5	2829.0	2807.1	2793.3	2907.9	3071.2	2810.4
40°	3565.7	3553.4	3362.0	3181.6	3069.1	3068.4	3061.6	3078.1	3268.7	3492.4	3163.8
42.5°	3866.2	3829.9	3576.7	3393.6	3316.8	3340.0	3353.8	3421.0	3703.1	4004.2	3594.6
45°	4190.0	4108.3	3799.7	3617.9	3591.8	3641.2	3687.8	3834.0	4214.0	4586.4	4066.5
47.5°	4448.6	4369.8	4030.1	3853.2	3910.2	3984.9	4074.8	4305.9	4786.1	5188.1	4532.3
50°	4652.4	4600.9	4262.8	4127.6	4260.7	4376.0	4522.7	4840.3	5381.6	5774.0	4963.7
52.5°	4849.9	4811.6	4497.3	4408.8	4672.3	4831.5	5031.1	5413.8	5992.1	6350.1	5326.7
55°	5028.3	5000.8	4749.8	4759.4	5156.6	5363.7	5614.9	6066.8	6657.5	6864.0	5634.1
57.5°	5229.2	5194.3	5038.0	5199.1	5778.7	6047.7	6374.1	6800.9	7281.8	7320.8	5868.0
60°	5431.6	5401.4	5357.5	5706.7	6569.0	6851.6	7161.1	7512.2	7915.0	7675.5	5854.2
62.5°	5607.3	5610.7	5688.2	6239.8	7342.8	7670.0	8047.3	8394.4	8487.7	7737.3	5421.3
65°	5905.0	5959.2	6190.3	6994.3	8432.2	8869.7	9332.8	9277.3	8646.2	7160.3	4493.2
67.5°	6258.9	6354.3	6822.8	8000.0	9809.0	10390.0	10568.9	9476.9	8011.7	5820.6	3202.8
70°	6223.3	6354.3	7095.9	8749.8	10943.5	11333.3	10789.9	8576.9	6361.8	3802.4	1701.2
72.5°	5526.4	5713.6	6539.5	8406.1	10586.1	10551.8	9367.2	6394.1	3779.9	1527.0	664.8
75°	4212.0	4401.3	5112.0	6641.0	8367.0	8078.8	6646.6	3532.2	1434.3	606.4	419.1
77.5°	2423.0	2569.7	3118.5	4072.7	5308.2	5012.5	3699.5	1570.9	698.3	422.7	327.2
80°	1352.7	1434.3	1767.9	2066.2	2601.3	2384.5	1655.3	976.1	521.3	306.7	252.4
82.5°	1069.4	1142.2	1429.5	1303.4	1188.0	1096.2	950.8	869.1	416.4	193.5	150.9
85°	934.2	1003.5	1210.0	1026.3	811.6	744.3	772.5	855.4	323.7	116.6	128.9
87.5°	865.8	958.3	1078.4	790.9	631.8	559.7	712.7	937.8	104.3	72.7	52.1
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°	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	2023.7	2012.7	1994.8	1979.1	1954.4	1941.3	1926.9	1916.6	1908.4	1901.5	1912.6
5°	1961.2	1940.7	1903.0	1862.5	1814.5	1776.7	1745.2	1715.7	1695.0	1681.4	1691.0
7.5°	1902.2	1868.7	1809.7	1736.2	1653.9	1583.9	1526.4	1475.5	1440.6	1417.9	1426.8
10°	1868.7	1826.9	1735.6	1620.4	1498.9	1389.8	1299.3	1221.1	1166.9	1136.0	1140.7
12.5°	1860.3	1806.2	1680.0	1521.6	1355.5	1203.9	1076.3	967.9	891.8	852.0	853.4
15°	1866.5	1797.4	1627.9	1426.8	1216.9	1025.5	866.4	734.7	646.2	600.9	600.3
17.5°	1876.8	1790.4	1573.0	1324.7	1076.3	854.1	676.5	547.4	469.3	432.8	430.2
20°	1887.9	1779.5	1511.3	1214.2	930.3	694.9	529.6	428.8	379.3	359.5	358.1
22.5°	1903.7	1769.9	1447.4	1097.6	786.7	566.0	435.6	367.6	341.7	331.4	330.0
25°	1929.0	1765.1	1379.5	976.1	657.8	473.3	379.3	337.5	322.5	315.5	314.8
27.5°	1971.6	1771.8	1315.7	858.1	552.9	411.0	347.8	322.5	311.4	305.3	304.7
30°	2026.4	1793.2	1248.5	746.4	471.2	368.4	328.6	312.2	303.2	297.0	297.0
32.5°	2117.7	1828.9	1177.9	649.6	413.0	338.9	314.2	303.2	295.6	290.8	290.2
35°	2252.1	1896.0	1112.0	569.4	371.2	317.6	301.9	293.6	288.1	285.3	285.3
37.5°	2447.6	2002.4	1053.7	511.8	345.7	303.2	290.2	284.0	280.6	280.6	280.6
40°	2710.2	2149.2	1006.4	473.3	331.4	293.0	281.3	276.4	274.3	275.2	275.2
42.5°	3034.7	2339.9	974.8	446.6	324.5	286.7	275.2	271.0	268.9	268.2	268.9
45°	3404.5	2556.6	971.4	426.6	317.6	282.7	271.0	266.8	262.8	260.0	260.0
47.5°	3764.0	2776.9	999.5	419.8	310.1	277.8	267.5	263.5	257.2	251.1	251.1
50°	4081.6	2964.2	1037.2	422.7	307.3	271.0	262.0	260.0	250.4	243.5	242.9
52.5°	4334.1	3108.2	1068.1	430.8	310.1	266.1	255.2	255.8	245.7	238.0	237.3
55°	4536.5	3202.8	1059.9	439.0	316.2	263.5	249.0	250.4	242.1	234.6	234.6
57.5°	4625.0	3167.9	968.6	432.1	321.0	264.1	244.2	249.6	242.9	236.0	236.0
60°	4435.0	2857.1	797.8	402.0	314.8	262.0	242.1	252.4	251.8	244.8	244.2
62.5°	3860.0	2300.8	618.7	357.4	293.6	251.8	236.6	251.8	259.3	257.2	256.5
65°	2975.1	1638.8	472.6	309.4	264.9	234.6	222.3	236.0	246.3	249.0	248.3
67.5°	1931.0	1004.3	364.3	264.1	232.5	214.7	203.8	209.9	212.0	212.0	210.7
70°	949.4	540.5	290.2	222.3	199.6	193.5	187.3	183.9	180.4	177.6	177.6
72.5°	468.5	353.2	238.7	187.9	172.2	169.5	168.0	164.0	161.1	157.8	156.5
75°	346.5	287.5	203.0	158.4	148.1	145.5	148.1	144.8	144.0	141.3	140.0
77.5°	284.7	244.8	175.0	135.8	127.0	122.2	126.2	127.0	127.7	123.5	122.2
80°	231.2	207.1	146.1	112.5	104.3	100.8	103.6	109.0	110.5	104.3	101.5
82.5°	166.7	169.5	118.0	87.9	81.0	78.2	83.7	90.5	91.9	83.0	81.0
85°	140.0	141.3	90.5	62.4	55.6	51.5	60.4	67.2	72.0	63.2	61.0
87.5°	58.4	83.0	52.1	35.0	30.9	26.8	32.2	35.6	43.2	39.8	39.2
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)