

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: P454101

Luminaire Tested: **GLAN-SA5A-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13105 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

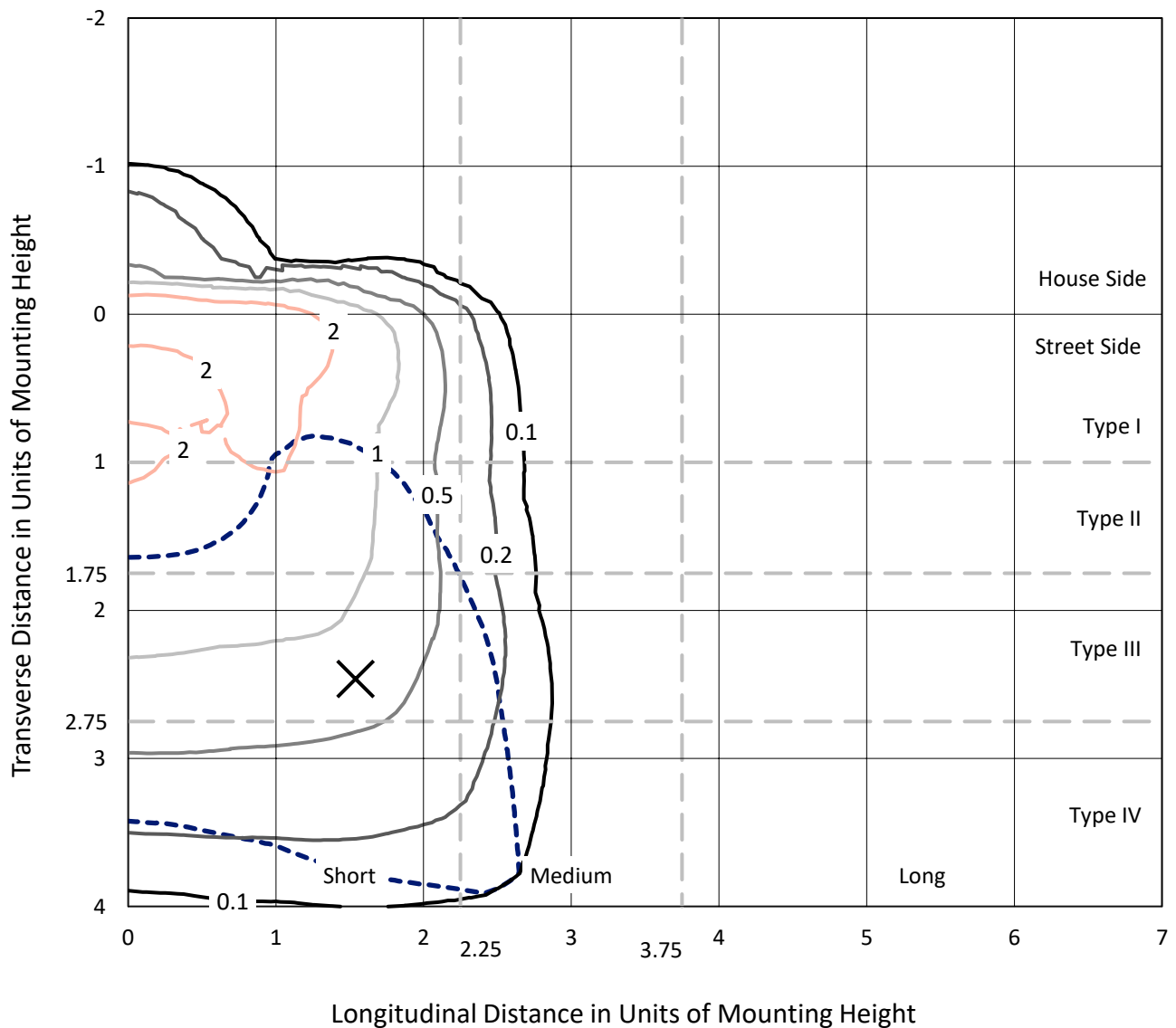
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

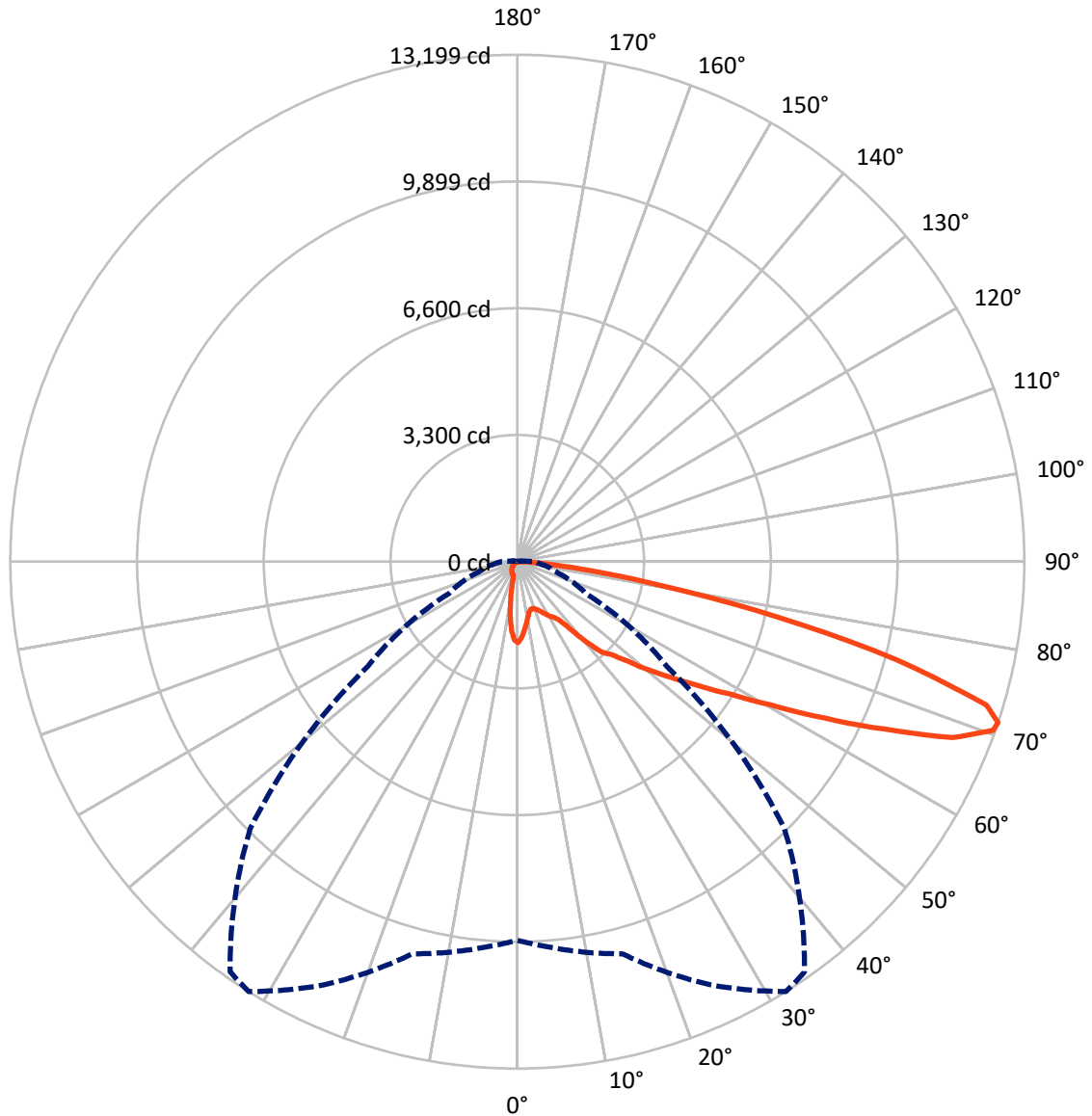
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.7	0.0	1097.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12007.3	0.0	12007.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	13105.0	0.0	13105.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.3
10°-20°	371.9	2.8
20°-30°	578.6	4.4
30°-40°	963.9	7.4
40°-50°	1793.1	13.7
50°-60°	2878.9	22.0
60°-70°	3872.2	29.5
70°-80°	2297.4	17.5
80°-90°	177.6	1.4
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°	13105.0	100.0
0°-180°	13105.0	100.0



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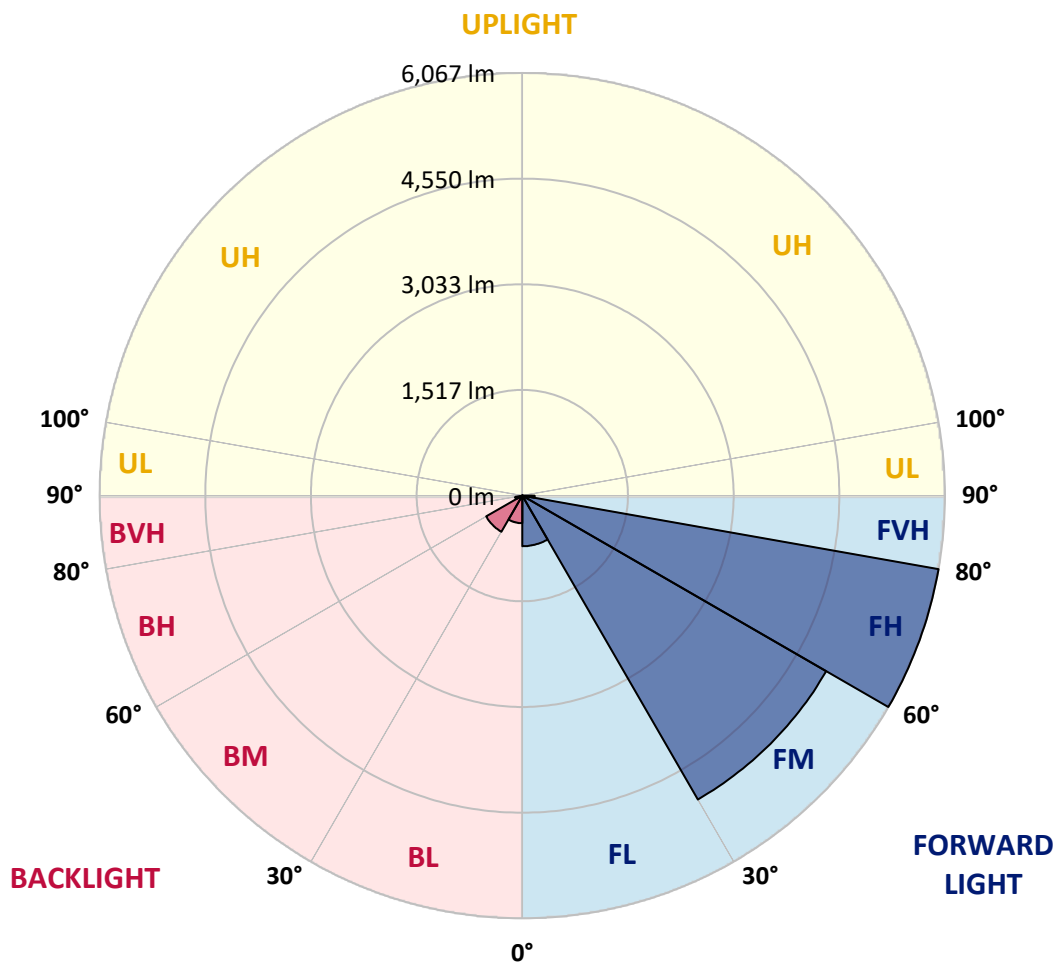
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.4	5.5			
FM (30°-60°)	5037.1	38.4			
FH (60°-80°)	6067.0	46.3			G3/7500
FVH (80°-90°)	176.9	1.3			G2/225
BL (0°-30°)	395.5	3.0	B1/500		
BM (30°-60°)	598.8	4.6	B1/1000		
BH (60°-80°)	102.7	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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°	32°	35°	45°	55°	65°	75°	85°
0°	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5
2.5°	1954.6	1974.7	1971.7	1978.7	1995.8	2002.9	2022.0	2043.1	2072.3	2092.4	2105.5
5°	1750.4	1765.5	1767.5	1802.7	1819.8	1838.9	1895.2	1956.6	2025.0	2079.3	2115.5
7.5°	1532.1	1540.1	1556.2	1602.5	1645.8	1664.9	1750.4	1857.0	1964.6	2066.2	2131.6
10°	1352.0	1361.1	1390.2	1439.5	1479.8	1504.9	1623.6	1757.4	1908.3	2059.2	2154.8
12.5°	1249.4	1254.4	1265.5	1309.8	1361.1	1388.2	1516.0	1668.9	1863.0	2062.2	2194.0
15°	1242.4	1240.4	1227.3	1245.4	1291.7	1319.8	1444.6	1608.5	1822.8	2072.3	2240.3
17.5°	1279.6	1274.6	1243.4	1243.4	1281.6	1304.7	1414.4	1576.3	1802.7	2095.4	2305.7
20°	1336.9	1328.9	1277.6	1273.5	1310.8	1334.9	1432.5	1578.4	1806.7	2138.7	2393.2
22.5°	1409.4	1400.3	1322.8	1324.9	1365.1	1389.2	1484.8	1614.6	1831.9	2192.0	2486.7
25°	1503.9	1493.9	1402.3	1398.3	1440.5	1461.7	1562.3	1678.9	1867.1	2258.4	2609.5
27.5°	1629.7	1608.5	1498.9	1492.8	1538.1	1565.3	1655.8	1765.5	1929.4	2349.9	2774.4
30°	1733.3	1710.1	1605.5	1589.4	1637.7	1658.8	1752.4	1882.2	2052.2	2509.9	3002.8
32.5°	1869.1	1834.9	1712.1	1669.9	1721.2	1748.4	1892.2	2099.4	2234.2	2678.9	3274.4
35°	2174.9	2153.8	2003.9	1856.0	1853.0	1887.2	2098.4	2318.7	2421.3	2942.4	3644.6
37.5°	2612.5	2597.4	2438.4	2240.3	2182.9	2166.8	2348.9	2560.2	2720.1	3304.6	4075.1
40°	3120.5	3085.3	2939.4	2771.4	2697.0	2649.7	2644.7	2919.3	3110.4	3796.5	4523.8
42.5°	3484.6	3420.3	3243.2	3231.1	3215.1	3165.8	3022.9	3444.4	3614.4	4325.6	5003.7
45°	3866.9	3769.3	3505.8	3460.5	3454.5	3451.5	3594.3	4066.1	4163.7	4899.0	5496.6
47.5°	4163.7	4086.2	3869.9	3849.8	3875.0	3943.4	4349.8	4726.0	4705.9	5410.1	5910.0
50°	4559.0	4500.7	4260.2	4298.5	4428.2	4539.9	5201.8	5445.3	5151.5	5812.4	6210.8
52.5°	5025.8	4918.1	4694.8	4798.4	4997.6	5183.7	6106.2	6075.0	5464.4	6115.2	6435.1
55°	5430.2	5353.7	5277.3	5384.9	5682.7	5915.1	6923.0	6546.8	5691.7	6358.7	6533.7
57.5°	6114.2	6096.1	6017.7	6127.3	6488.4	6729.9	7654.4	6913.0	5837.6	6485.4	6418.0
60°	7126.2	7097.1	6951.2	7091.0	7561.8	7941.1	8328.4	7241.9	5870.8	6436.1	6085.1
62.5°	8343.4	8243.9	8119.1	8325.3	8971.2	9138.2	8963.1	7437.1	5747.1	6043.8	5282.3
65°	9480.2	9377.6	9380.6	9815.2	10518.3	10632.0	9703.5	7407.9	5384.9	5061.0	3896.1
67.5°	10350.3	10333.2	10456.0	11304.0	12223.4	12145.0	10365.4	6971.3	4311.5	3280.4	2070.3
70°	10394.6	10427.8	10779.9	12211.4	13144.9	13020.2	10309.1	5666.6	2687.9	1508.9	815.8
71°	9859.4	10082.7	10569.6	12183.2	13199.2	13037.3	9834.3	4746.1	1971.7	1052.2	588.5
72.5°	8401.8	8519.5	9571.7	11465.9	12769.7	12423.6	8630.1	3326.7	1262.5	643.8	338.0
75°	4627.4	4917.1	6410.0	8995.3	10213.5	9909.7	5624.3	1580.4	629.7	352.1	139.8
77.5°	2203.1	2146.7	3127.5	5349.7	6925.0	6908.9	2833.8	702.2	367.2	238.4	70.4
80°	629.7	708.2	1197.1	2543.1	3844.8	3887.0	1088.5	339.0	254.5	186.1	36.2
82.5°	190.1	194.2	439.6	1124.7	1912.3	1802.7	408.4	173.0	183.1	147.9	21.1
85°	33.2	41.2	129.8	396.3	729.3	553.3	102.6	82.5	120.7	97.6	12.1
87.5°	2.0	3.0	43.3	45.3	64.4	37.2	18.1	12.1	26.2	26.2	7.0
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°	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5	2107.5
2.5°	2114.5	2120.6	2116.5	2107.5	2092.4	2074.3	2050.1	2030.0	2012.9	2003.9	2014.9
5°	2127.6	2135.7	2115.5	2070.3	2001.9	1927.4	1842.9	1777.5	1726.2	1710.1	1704.1
7.5°	2147.7	2152.8	2098.4	1997.8	1853.0	1676.9	1523.0	1393.3	1292.7	1262.5	1218.2
10°	2173.9	2170.9	2068.3	1881.1	1626.6	1362.1	1123.7	946.6	812.8	764.5	760.5
12.5°	2214.1	2198.0	2030.0	1722.2	1357.0	1011.0	716.2	560.3	475.8	447.7	441.6
15°	2264.4	2226.2	1969.7	1536.1	1039.2	652.9	441.6	394.3	383.3	381.3	379.2
17.5°	2323.8	2263.4	1890.2	1307.7	730.3	423.5	369.2	368.2	369.2	367.2	366.2
20°	2404.2	2302.6	1795.6	1037.1	482.9	357.1	352.1	352.1	353.1	352.1	352.1
22.5°	2489.8	2348.9	1678.9	791.7	364.2	339.0	338.0	340.0	342.0	341.0	341.0
25°	2595.4	2409.3	1525.0	542.2	325.9	323.9	324.9	328.9	333.0	334.0	333.0
27.5°	2748.3	2483.7	1360.1	373.2	298.8	300.8	310.8	320.9	326.9	327.9	327.9
30°	2920.3	2566.2	1144.8	302.8	276.6	276.6	288.7	307.8	320.9	322.9	323.9
32.5°	3141.6	2661.8	906.4	272.6	255.5	253.5	264.6	287.7	311.8	318.9	318.9
35°	3415.2	2774.4	674.0	253.5	240.4	235.4	241.4	260.5	291.7	311.8	313.9
37.5°	3736.1	2881.1	492.9	236.4	226.3	219.3	223.3	238.4	263.6	293.7	301.8
40°	4032.9	2975.6	368.2	222.3	212.3	207.2	210.2	217.3	238.4	266.6	271.6
42.5°	4356.8	3049.1	292.7	207.2	198.2	196.2	196.2	199.2	213.3	229.4	230.4
45°	4679.7	3075.2	245.5	189.1	183.1	185.1	184.1	182.1	188.1	186.1	186.1
47.5°	4910.1	3044.0	203.2	172.0	172.0	175.0	170.0	163.0	159.9	147.9	148.9
50°	5068.0	2930.4	167.0	151.9	159.9	164.0	153.9	142.8	131.8	118.7	115.7
52.5°	5133.4	2728.2	136.8	125.7	141.8	146.9	134.8	121.7	104.6	93.6	90.5
55°	5091.2	2478.7	113.7	102.6	119.7	125.7	113.7	98.6	79.5	67.4	65.4
57.5°	4905.1	2180.9	96.6	81.5	95.6	99.6	91.5	75.4	56.3	44.3	44.3
60°	4583.2	1873.1	78.5	64.4	71.4	77.5	69.4	54.3	38.2	27.2	25.1
62.5°	3930.3	1521.0	63.4	50.3	50.3	55.3	48.3	39.2	24.1	14.1	13.1
65°	2837.8	1043.2	50.3	37.2	36.2	36.2	30.2	26.2	14.1	6.0	4.0
67.5°	1542.1	588.5	40.2	28.2	25.1	24.1	19.1	15.1	6.0	1.0	0.0
70°	606.6	226.3	31.2	19.1	16.1	15.1	10.1	7.0	4.0	0.0	0.0
71°	411.4	155.9	27.2	16.1	13.1	11.1	8.0	6.0	3.0	0.0	0.0
72.5°	235.4	96.6	21.1	12.1	10.1	8.0	6.0	4.0	3.0	0.0	0.0
75°	102.6	49.3	13.1	9.1	7.0	5.0	4.0	3.0	1.0	0.0	0.0
77.5°	52.3	27.2	9.1	7.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
80°	29.2	14.1	6.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
82.5°	16.1	8.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
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)