

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: P452709

Luminaire Tested: **GLAN-SA3C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452709
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-SA3C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 12009 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

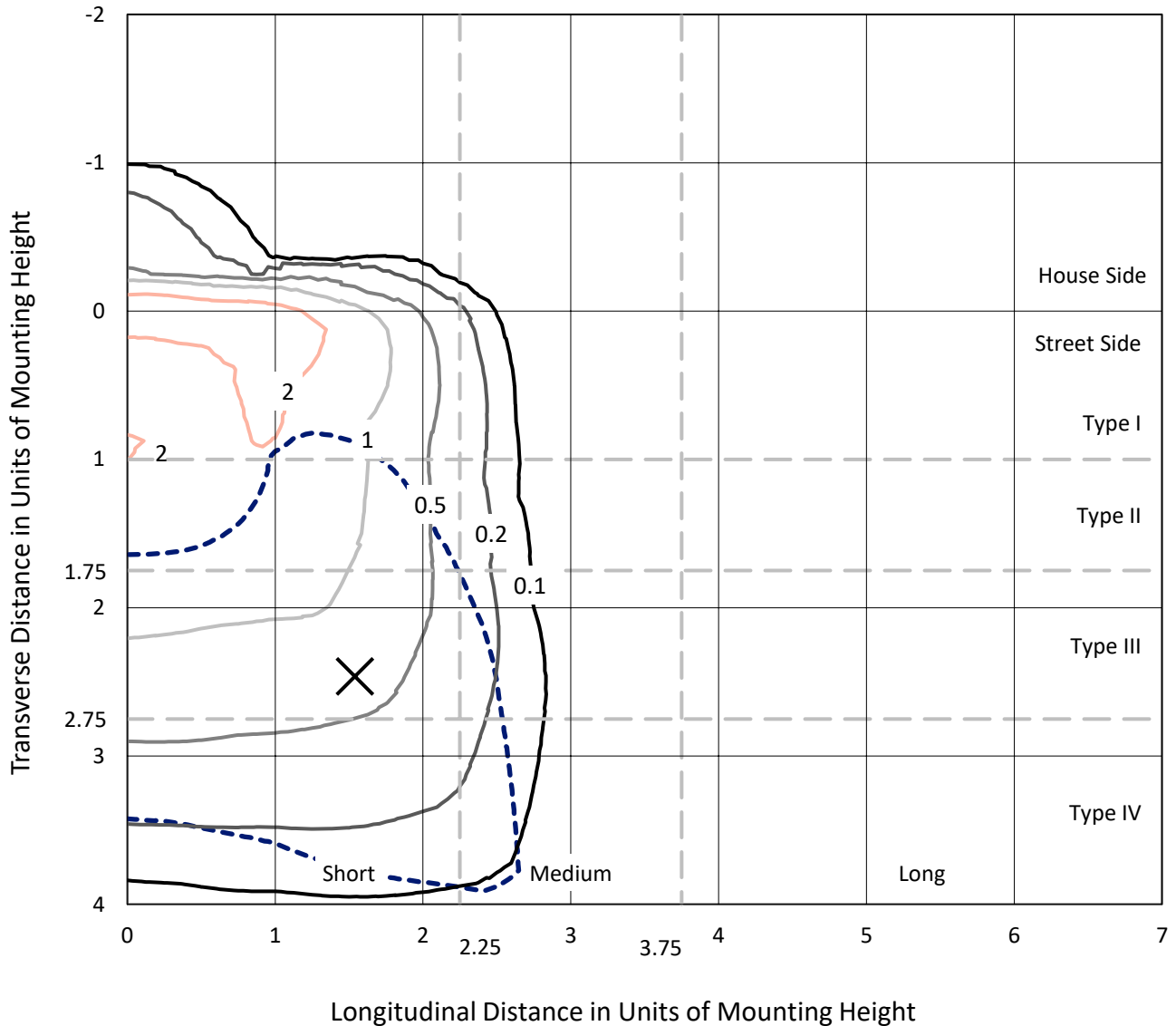
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

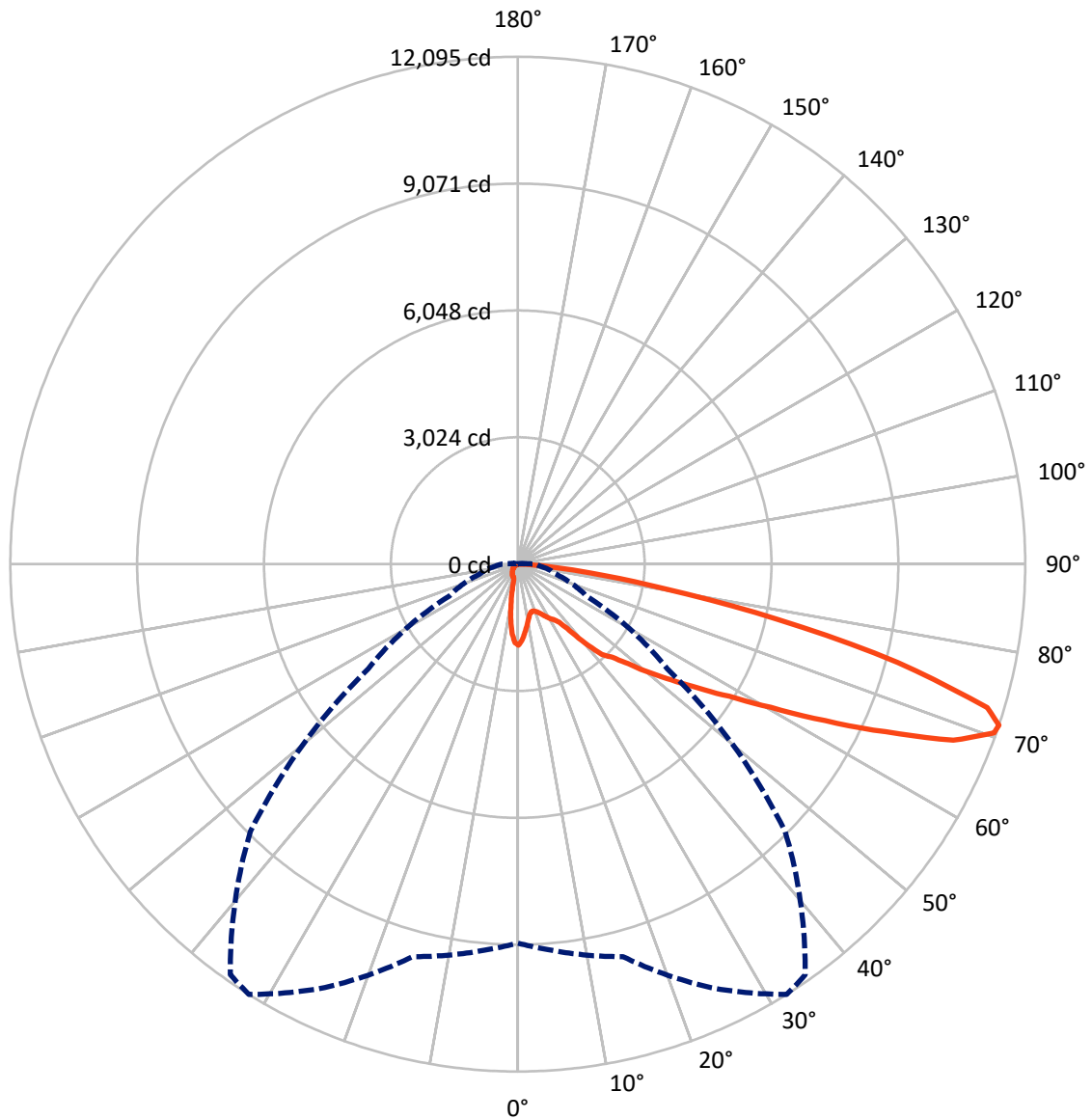
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1005.9	0.0	1005.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11003.1	0.0	11003.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	12009.0	0.0	12009.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	1.3
10°-20°	340.8	2.8
20°-30°	530.2	4.4
30°-40°	883.3	7.4
40°-50°	1643.1	13.7
50°-60°	2638.1	22.0
60°-70°	3548.4	29.5
70°-80°	2105.3	17.5
80°-90°	162.7	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°	12009.0	100.0
0°-180°	12009.0	100.0



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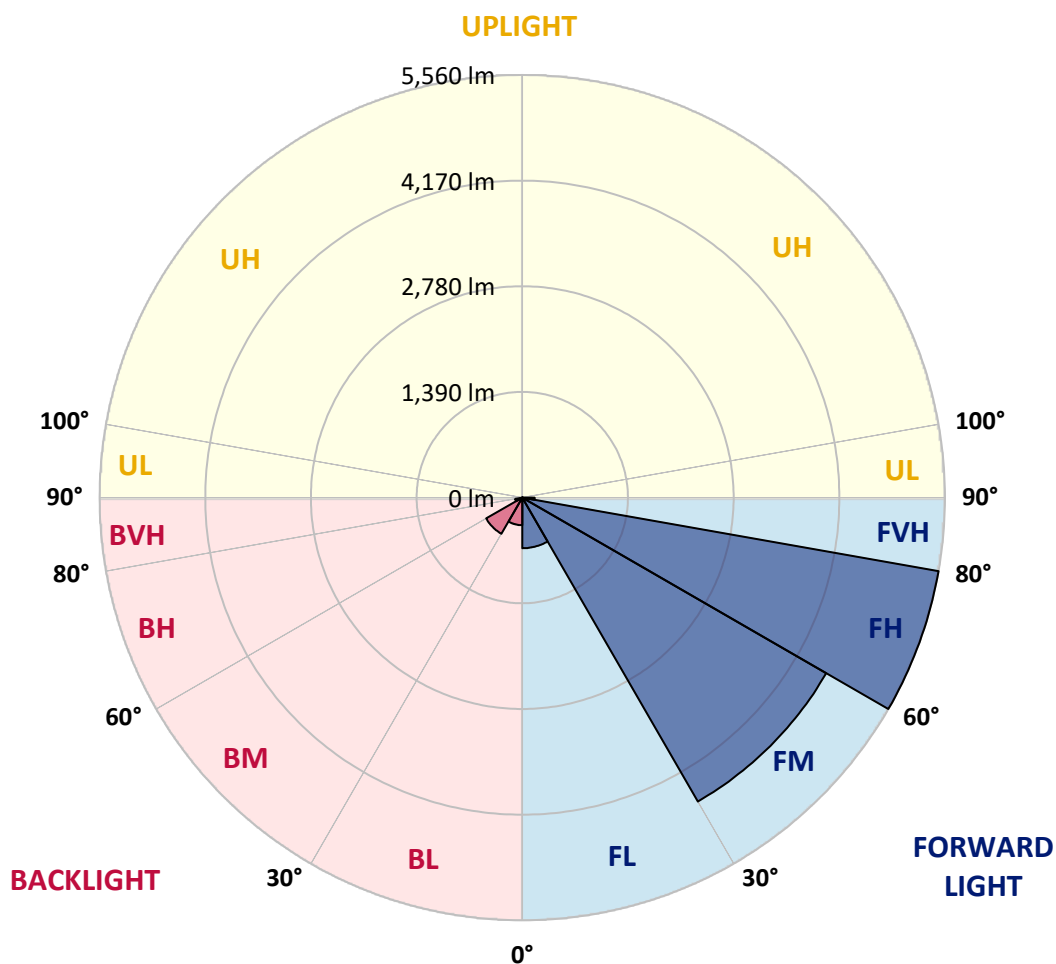
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.6	5.5			
FM (30°-60°)	4615.8	38.4			
FH (60°-80°)	5559.6	46.3			G3/7500
FVH (80°-90°)	162.1	1.3			G2/225
BL (0°-30°)	362.4	3.0	B1/500		
BM (30°-60°)	548.7	4.6	B1/1000		
BH (60°-80°)	94.1	0.8	B0/110		G0/110
BVH (80°-90°)	0.6	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°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1791.1	1809.6	1806.8	1813.2	1828.9	1835.4	1852.9	1872.2	1899.0	1917.4	1929.4
5°	1604.0	1617.8	1619.7	1651.9	1667.6	1685.1	1736.7	1793.0	1855.6	1905.4	1938.6
7.5°	1403.9	1411.3	1426.1	1468.5	1508.1	1525.6	1604.0	1701.7	1800.3	1893.4	1953.4
10°	1238.9	1247.2	1274.0	1319.1	1356.0	1379.1	1487.8	1610.4	1748.7	1887.0	1974.6
12.5°	1144.9	1149.5	1159.7	1200.2	1247.2	1272.1	1389.2	1529.3	1707.2	1889.8	2010.5
15°	1138.5	1136.6	1124.6	1141.2	1183.6	1209.4	1323.7	1474.0	1670.4	1899.0	2052.9
17.5°	1172.6	1168.0	1139.4	1139.4	1174.4	1195.6	1296.1	1444.5	1651.9	1920.2	2112.8
20°	1225.1	1217.7	1170.7	1167.0	1201.1	1223.3	1312.7	1446.4	1655.6	1959.8	2193.0
22.5°	1291.5	1283.2	1212.2	1214.1	1250.9	1273.0	1360.6	1479.5	1678.7	2008.7	2278.8
25°	1378.1	1368.9	1285.0	1281.3	1320.1	1339.4	1431.6	1538.5	1710.9	2069.5	2391.2
27.5°	1493.4	1474.0	1373.5	1368.0	1409.5	1434.4	1517.3	1617.8	1768.1	2153.4	2542.4
30°	1588.3	1567.1	1471.2	1456.5	1500.7	1520.1	1605.8	1724.7	1880.5	2300.0	2751.7
32.5°	1712.8	1681.4	1569.0	1530.2	1577.3	1602.1	1734.0	1923.9	2047.4	2454.8	3000.6
35°	1993.0	1973.6	1836.3	1700.8	1698.0	1729.4	1922.9	2124.8	2218.8	2696.4	3339.8
37.5°	2394.0	2380.2	2234.5	2052.9	2000.4	1985.6	2152.5	2346.1	2492.6	3028.2	3734.3
40°	2859.5	2827.3	2693.6	2539.6	2471.4	2428.1	2423.5	2675.2	2850.3	3479.0	4145.5
42.5°	3193.2	3134.2	2972.0	2960.9	2946.2	2901.0	2770.1	3156.3	3312.1	3963.9	4585.2
45°	3543.5	3454.1	3212.6	3171.1	3165.6	3162.8	3293.7	3726.0	3815.5	4489.3	5036.9
47.5°	3815.5	3744.5	3546.3	3527.8	3550.9	3613.6	3986.0	4330.8	4312.3	4957.6	5415.8
50°	4177.7	4124.3	3904.0	3939.0	4057.9	4160.2	4766.8	4989.9	4720.7	5326.3	5691.4
52.5°	4605.5	4506.8	4302.2	4397.1	4579.7	4750.2	5595.5	5566.9	5007.4	5603.8	5896.9
55°	4976.0	4906.0	4835.9	4934.6	5207.4	5420.4	6344.0	5999.3	5215.7	5826.9	5987.3
57.5°	5602.9	5586.3	5514.4	5614.9	5945.8	6167.0	7014.2	6334.8	5349.4	5943.0	5881.3
60°	6530.2	6503.5	6369.8	6498.0	6929.4	7276.9	7631.8	6636.3	5379.8	5897.9	5576.2
62.5°	7645.7	7554.4	7440.1	7629.1	8220.9	8373.9	8213.5	6815.1	5266.4	5538.4	4840.5
65°	8687.3	8593.3	8596.1	8994.3	9638.7	9742.8	8892.0	6788.4	4934.6	4637.7	3570.2
67.5°	9484.7	9469.0	9581.5	10358.6	11201.2	11129.3	9498.5	6388.3	3951.0	3006.1	1897.1
70°	9525.3	9555.7	9878.3	11190.1	12045.6	11931.3	9446.9	5192.7	2463.1	1382.7	747.6
71°	9034.9	9239.5	9685.7	11164.3	12095.3	11946.9	9011.8	4349.2	1806.8	964.2	539.3
72.5°	7699.1	7807.0	8771.2	10507.0	11701.7	11384.6	7908.4	3048.5	1156.9	590.0	309.7
75°	4240.4	4505.9	5873.9	8243.0	9359.3	9081.0	5154.0	1448.2	577.1	322.6	128.1
77.5°	2018.8	1967.2	2866.0	4902.3	6345.9	6331.1	2596.8	643.4	336.5	218.5	64.5
80°	577.1	649.0	1097.0	2330.4	3523.2	3562.0	997.4	310.7	233.2	170.5	33.2
82.5°	174.2	177.9	402.8	1030.6	1752.4	1651.9	374.3	158.6	167.8	135.5	19.4
85°	30.4	37.8	118.9	363.2	668.3	507.0	94.0	75.6	110.6	89.4	11.1
87.5°	1.8	2.8	39.6	41.5	59.0	34.1	16.6	11.1	24.0	24.0	6.5
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°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1937.7	1943.2	1939.5	1931.2	1917.4	1900.8	1878.7	1860.3	1844.6	1836.3	1846.4
5°	1949.7	1957.0	1938.6	1897.1	1834.4	1766.2	1688.8	1628.9	1581.9	1567.1	1561.6
7.5°	1968.1	1972.7	1922.9	1830.8	1698.0	1536.7	1395.7	1276.7	1184.6	1156.9	1116.3
10°	1992.1	1989.3	1895.3	1723.8	1490.6	1248.2	1029.7	867.4	744.8	700.6	696.9
12.5°	2028.9	2014.2	1860.3	1578.2	1243.5	926.4	656.3	513.5	436.0	410.2	404.7
15°	2075.0	2040.0	1804.9	1407.6	952.3	598.3	404.7	361.4	351.2	349.4	347.5
17.5°	2129.4	2074.1	1732.1	1198.4	669.2	388.1	338.3	337.4	338.3	336.5	335.5
20°	2203.2	2110.1	1645.5	950.4	442.5	327.2	322.6	322.6	323.6	322.6	322.6
22.5°	2281.5	2152.5	1538.5	725.5	333.7	310.7	309.7	311.6	313.4	312.5	312.5
25°	2378.3	2207.8	1397.5	496.9	298.7	296.8	297.8	301.4	305.1	306.0	305.1
27.5°	2518.4	2276.0	1246.3	342.0	273.8	275.6	284.8	294.1	299.6	300.5	300.5
30°	2676.1	2351.6	1049.0	277.5	253.5	253.5	264.6	282.1	294.1	295.9	296.8
32.5°	2878.9	2439.2	830.6	249.8	234.1	232.3	242.4	263.6	285.8	292.2	292.2
35°	3129.6	2542.4	617.6	232.3	220.3	215.7	221.2	238.8	267.3	285.8	287.6
37.5°	3423.7	2640.1	451.7	216.6	207.4	201.0	204.6	218.5	241.5	269.2	276.5
40°	3695.6	2726.8	337.4	203.7	194.5	189.9	192.7	199.1	218.5	244.3	248.9
42.5°	3992.4	2794.1	268.3	189.9	181.6	179.8	179.8	182.5	195.4	210.2	211.1
45°	4288.4	2818.0	224.9	173.3	167.8	169.6	168.7	166.9	172.4	170.5	170.5
47.5°	4499.5	2789.5	186.2	157.6	157.6	160.4	155.8	149.3	146.6	135.5	136.4
50°	4644.2	2685.3	153.0	139.2	146.6	150.3	141.0	130.9	120.8	108.8	106.0
52.5°	4704.1	2500.0	125.4	115.2	130.0	134.6	123.5	111.5	95.9	85.7	83.0
55°	4665.4	2271.4	104.2	94.0	109.7	115.2	104.2	90.3	72.8	61.8	59.9
57.5°	4494.8	1998.5	88.5	74.7	87.6	91.3	83.9	69.1	51.6	40.6	40.6
60°	4199.9	1716.4	71.9	59.0	65.4	71.0	63.6	49.8	35.0	24.9	23.0
62.5°	3601.6	1393.8	58.1	46.1	46.1	50.7	44.2	36.0	22.1	12.9	12.0
65°	2600.5	955.9	46.1	34.1	33.2	33.2	27.7	24.0	12.9	5.5	3.7
67.5°	1413.2	539.3	36.9	25.8	23.0	22.1	17.5	13.8	5.5	0.9	0.0
70°	555.9	207.4	28.6	17.5	14.7	13.8	9.2	6.5	3.7	0.0	0.0
71°	377.0	142.9	24.9	14.7	12.0	10.1	7.4	5.5	2.8	0.0	0.0
72.5°	215.7	88.5	19.4	11.1	9.2	7.4	5.5	3.7	2.8	0.0	0.0
75°	94.0	45.2	12.0	8.3	6.5	4.6	3.7	2.8	0.9	0.0	0.0
77.5°	47.9	24.9	8.3	6.5	3.7	2.8	1.8	0.9	0.0	0.0	0.0
80°	26.7	12.9	5.5	3.7	2.8	1.8	0.9	0.9	0.0	0.0	0.0
82.5°	14.7	7.4	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.8	0.0	0.0	0.0	0.0	0.9	0.9	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)