

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: P322616

Luminaire Tested: **GAN-SA2D-750-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA 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: 11273 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

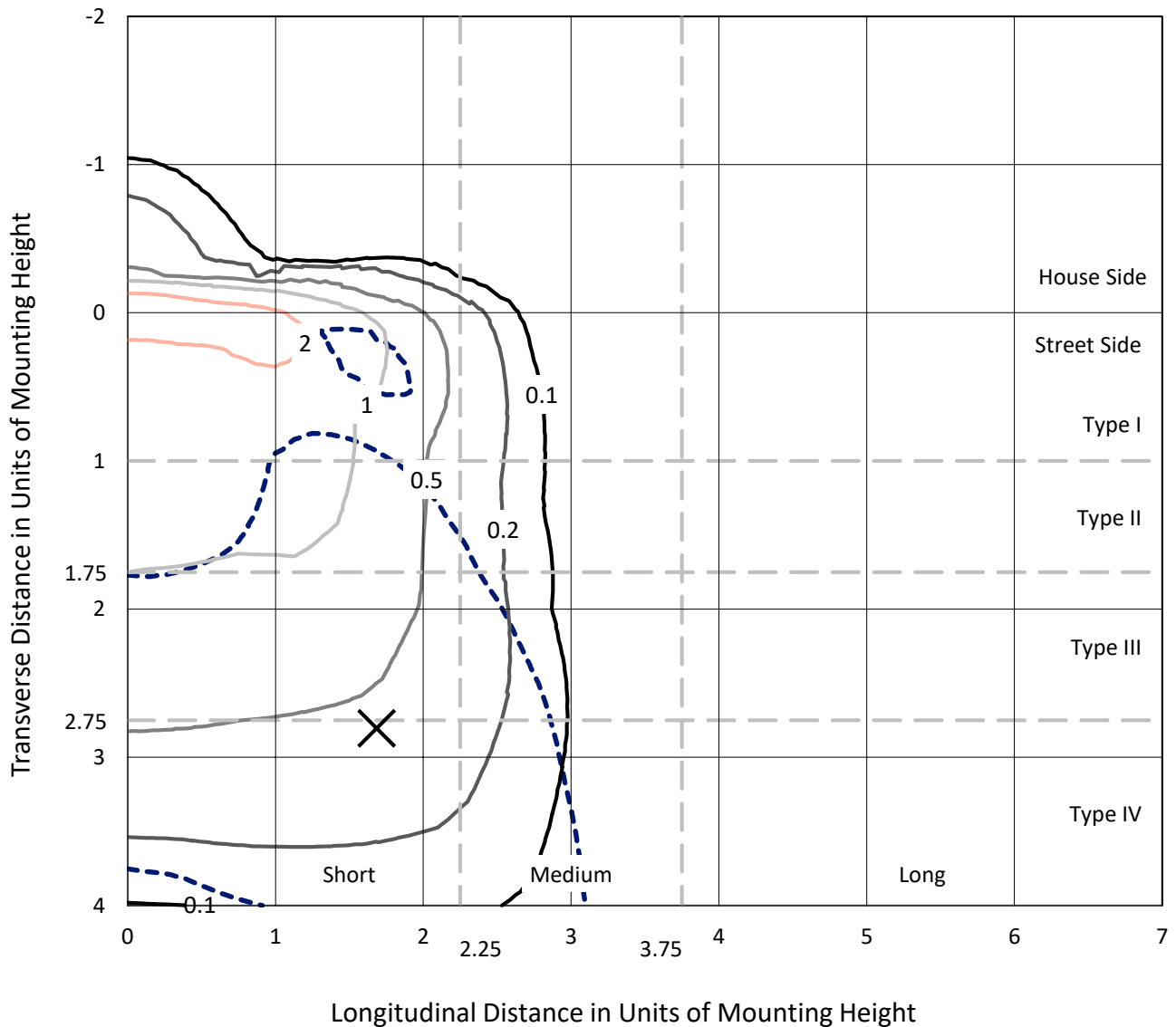
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

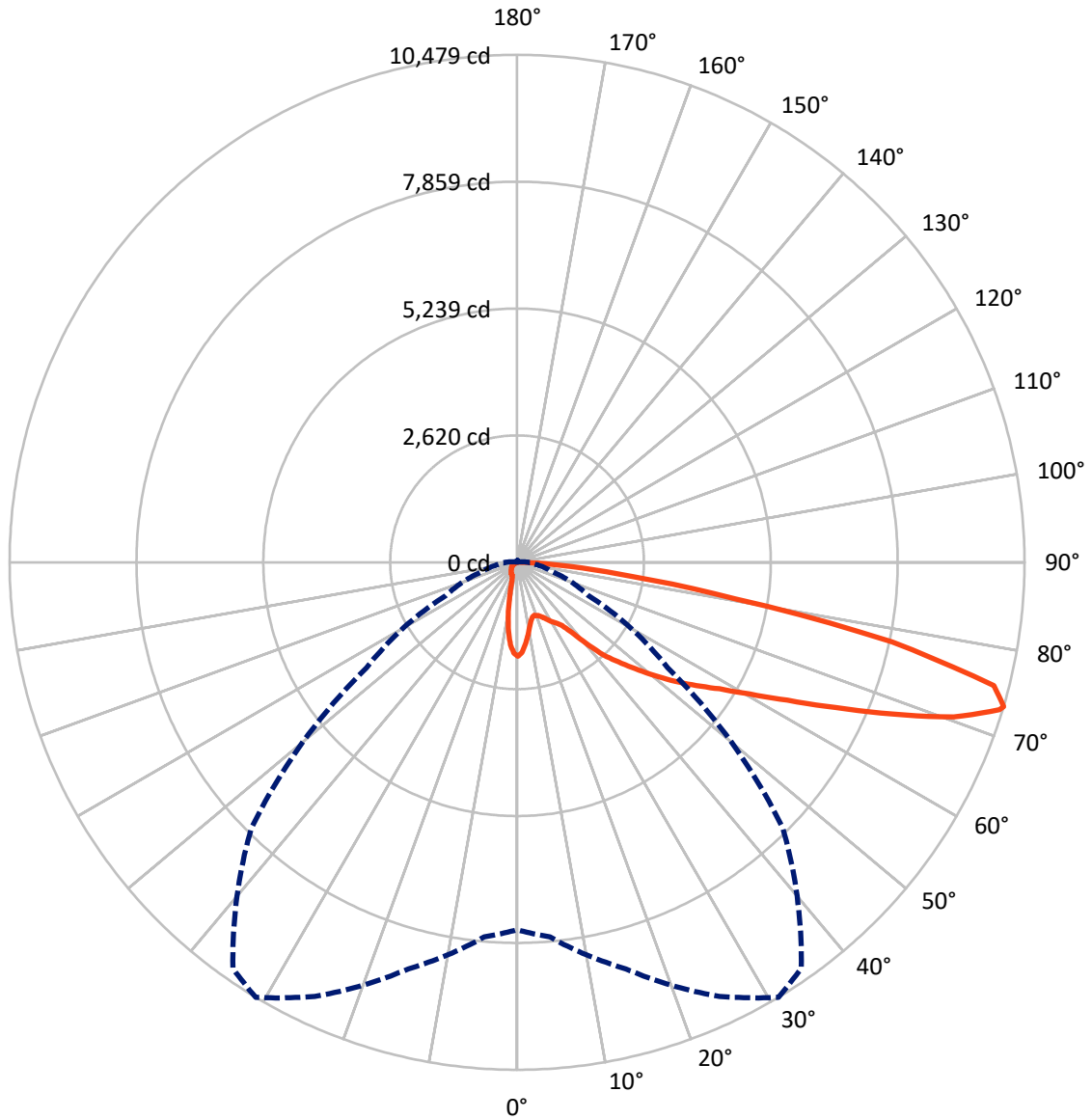
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P322616
CATALOG NUMBER: GAN-SA2D-750-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.6	0.0	1027.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	10245.4	0.0	10245.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	11273.0	0.0	11273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.4
10°-20°	349.2	3.1
20°-30°	523.2	4.6
30°-40°	832.4	7.4
40°-50°	1486.4	13.2
50°-60°	2306.4	20.5
60°-70°	3066.1	27.2
70°-80°	2306.3	20.5
80°-90°	242.3	2.1
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°	11273.0	100.0
0°-180°	11273.0	100.0



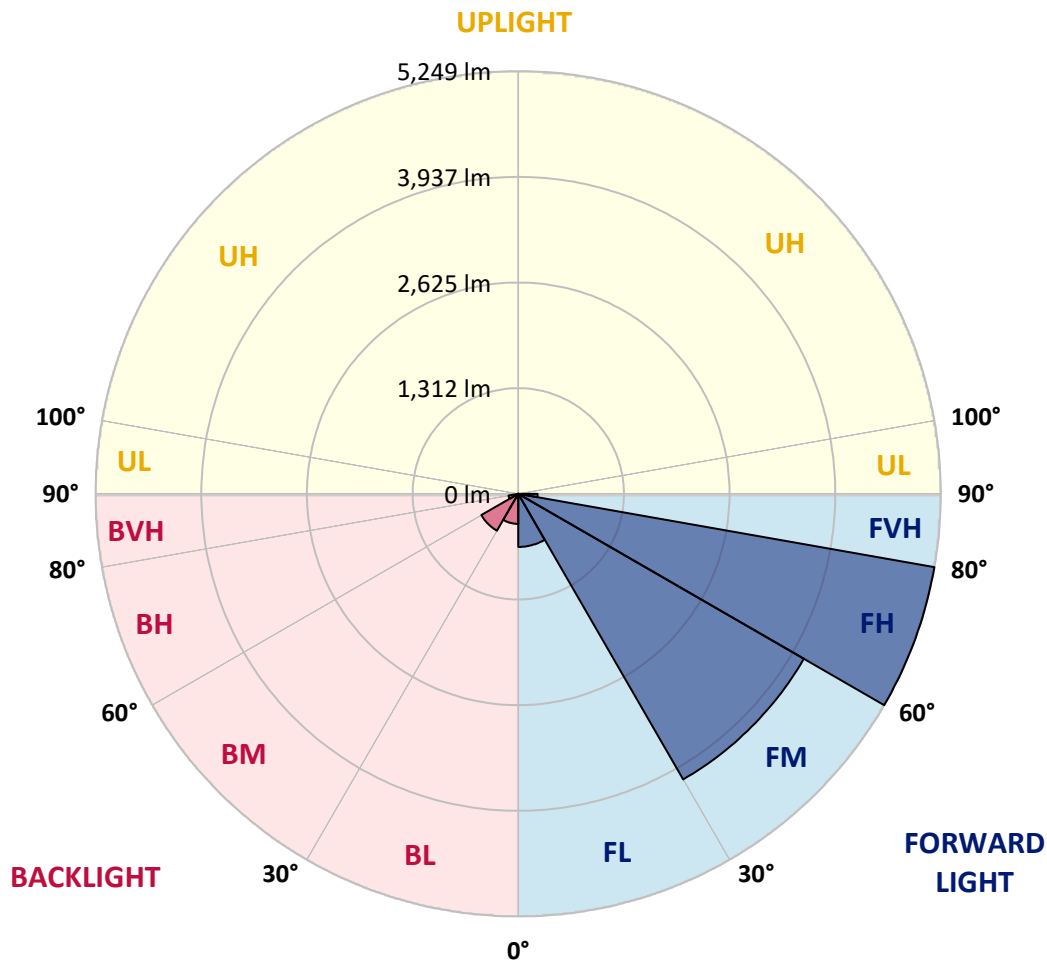
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.5	5.9			
FM (30°-60°)	4096.2	36.3			
FH (60°-80°)	5249.4	46.6			G3/7500
FVH (80°-90°)	240.3	2.1			G3/500
BL (0°-30°)	373.7	3.3	B1/500		
BM (30°-60°)	528.9	4.7	B1/1000		
BH (60°-80°)	122.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.0	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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CATALOG NUMBER: GAN-SA2D-750-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5
2.5°	1838.0	1845.8	1854.0	1855.7	1869.5	1870.0	1889.9	1904.8	1919.7	1934.0	1939.0
5°	1649.4	1662.1	1677.0	1691.9	1721.1	1732.7	1781.2	1830.9	1878.3	1923.5	1945.6
7.5°	1448.0	1462.4	1483.3	1520.3	1552.8	1575.5	1652.1	1740.4	1828.7	1912.0	1960.0
10°	1264.3	1277.6	1299.6	1338.8	1389.0	1419.9	1523.1	1645.5	1775.2	1901.5	1981.5
12.5°	1147.4	1154.6	1166.7	1208.6	1253.9	1288.6	1410.0	1561.7	1731.0	1900.9	2016.2
15°	1125.9	1128.1	1118.2	1136.9	1172.2	1205.9	1328.9	1493.8	1697.4	1909.8	2061.5
17.5°	1160.1	1159.0	1125.9	1123.7	1151.8	1179.4	1289.2	1446.9	1673.7	1930.2	2119.9
20°	1211.9	1208.1	1150.7	1140.2	1170.0	1195.9	1286.4	1429.3	1664.8	1964.4	2191.1
22.5°	1280.9	1274.3	1184.4	1173.3	1205.3	1232.3	1320.6	1446.4	1672.6	2010.2	2273.8
25°	1366.4	1356.5	1242.3	1230.1	1262.7	1289.7	1381.8	1495.5	1695.7	2065.9	2378.6
27.5°	1462.9	1448.6	1335.0	1303.5	1340.5	1368.6	1463.5	1570.5	1732.1	2124.9	2507.2
30°	1554.0	1535.2	1432.6	1380.7	1426.0	1457.4	1551.7	1659.9	1790.6	2215.9	2683.1
32.5°	1645.5	1624.6	1519.7	1458.0	1498.8	1533.0	1642.8	1782.9	1900.4	2354.9	2917.0
35°	1856.2	1834.2	1705.7	1603.6	1603.0	1622.4	1770.2	1951.1	2045.5	2548.5	3196.2
37.5°	2210.9	2198.3	2075.8	1882.2	1830.3	1808.8	1944.0	2151.9	2254.0	2815.0	3511.1
40°	2599.3	2588.3	2450.9	2275.5	2196.6	2143.6	2193.3	2431.6	2548.5	3140.4	3832.7
42.5°	3037.8	2985.4	2740.5	2688.1	2617.5	2577.2	2532.5	2776.4	2910.4	3494.6	4151.6
45°	3436.1	3347.9	3030.1	2950.7	2934.7	2944.6	2969.4	3239.7	3317.5	3915.5	4469.3
47.5°	3673.3	3603.8	3360.0	3283.9	3279.5	3345.1	3532.7	3763.2	3723.0	4282.3	4749.0
50°	3898.9	3836.1	3633.6	3652.4	3672.8	3762.1	4172.0	4301.6	4093.1	4615.0	5005.5
52.5°	4081.5	3985.6	3879.6	3985.0	4085.4	4229.4	4831.8	4784.9	4355.7	4879.7	5225.1
55°	4186.9	4143.3	4194.6	4300.5	4489.2	4723.1	5454.6	5187.0	4547.7	5121.4	5371.3
57.5°	4573.0	4487.5	4589.6	4681.2	4927.2	5254.3	5988.0	5486.5	4686.1	5270.9	5404.9
60°	5040.3	4971.3	5031.4	5183.7	5515.8	5900.3	6486.7	5730.9	4758.4	5366.8	5317.7
62.5°	5783.9	5692.9	5655.3	5825.8	6266.0	6685.8	6865.1	5900.3	4742.4	5324.4	5018.8
65°	6780.1	6685.8	6518.1	6672.6	7232.5	7528.7	7288.2	5936.1	4632.1	4980.7	4263.0
67.5°	7800.6	7732.2	7588.8	7849.2	8354.5	8449.9	7735.6	5849.0	4276.8	4038.5	3011.9
70°	8474.7	8445.5	8538.7	9114.6	9565.3	9537.7	8146.0	5380.6	3333.5	2483.5	1490.0
72.5°	7988.8	8128.9	8817.3	9861.5	10412.1	10187.0	7935.2	4131.7	1905.3	955.4	430.8
73°	7586.1	7765.3	8692.1	9889.7	10478.8	10232.2	7758.2	3792.5	1624.0	754.1	326.6
75°	5277.5	5497.6	7196.1	9210.6	10166.6	9749.0	6466.8	2321.3	752.4	334.3	131.8
77.5°	2562.3	2725.1	3962.4	6654.9	7906.6	7617.0	4025.8	865.0	339.8	209.1	60.7
80°	956.5	1063.5	1720.0	3387.0	4569.2	4688.9	1770.7	327.1	226.2	168.2	30.9
82.5°	250.4	279.1	634.4	1510.4	2341.7	2450.9	558.3	164.9	165.5	138.5	18.8
85°	80.0	91.6	198.0	678.0	1103.3	968.7	145.6	80.0	120.3	103.2	10.5
87.5°	9.9	12.7	62.9	159.4	243.3	135.2	22.6	23.7	51.3	57.4	6.1
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°	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5	1939.5
2.5°	1944.0	1941.2	1941.7	1927.4	1918.0	1899.3	1880.0	1871.1	1861.8	1857.9	1861.8
5°	1953.9	1948.9	1934.6	1890.4	1843.6	1782.9	1726.1	1683.0	1629.0	1614.1	1629.5
7.5°	1969.3	1959.4	1917.5	1827.6	1723.3	1607.5	1477.3	1382.4	1304.6	1254.4	1272.6
10°	1991.9	1973.2	1888.8	1736.0	1549.5	1344.3	1159.5	1015.6	913.5	871.6	869.9
12.5°	2030.0	1994.7	1853.5	1616.8	1337.2	1063.5	821.4	665.3	582.5	529.0	527.9
15°	2071.9	2020.1	1808.8	1474.0	1090.0	761.8	529.0	410.4	356.9	339.8	337.6
17.5°	2123.2	2049.3	1750.9	1298.0	831.3	504.7	345.3	311.1	308.9	307.3	307.3
20°	2187.8	2084.1	1676.4	1096.6	589.7	337.0	293.5	295.7	296.8	294.6	295.1
22.5°	2262.8	2119.4	1587.6	880.4	398.8	281.9	280.8	283.5	284.6	283.5	284.1
25°	2350.0	2160.2	1479.5	653.7	288.0	267.5	270.3	274.2	276.9	276.9	276.9
27.5°	2458.1	2209.8	1349.3	456.2	248.8	252.6	260.4	267.5	271.4	272.5	272.5
30°	2598.7	2271.6	1193.2	312.8	226.2	232.8	247.1	260.9	268.1	269.2	269.7
32.5°	2776.4	2341.1	1012.2	231.1	206.9	211.8	227.3	250.4	264.2	266.4	266.4
35°	2979.9	2421.7	817.5	201.3	193.1	194.7	206.9	233.3	257.6	263.7	264.2
37.5°	3202.8	2501.1	621.7	188.1	181.5	181.5	190.3	212.9	241.6	260.4	262.6
40°	3410.7	2549.1	435.8	177.6	171.0	171.0	178.7	195.3	222.3	250.4	256.5
42.5°	3602.7	2565.6	303.4	167.7	161.1	162.7	169.4	182.6	203.0	231.1	236.7
45°	3800.2	2562.9	221.2	156.1	151.1	156.1	161.1	171.0	185.9	201.9	203.0
47.5°	3949.1	2539.7	175.4	145.1	141.8	148.4	152.8	159.4	167.7	166.6	166.6
50°	4088.7	2483.5	141.2	130.2	132.4	140.1	142.3	144.5	145.1	134.6	133.5
52.5°	4194.6	2395.7	113.1	114.2	123.0	130.7	128.5	125.2	119.7	107.0	104.8
55°	4229.9	2226.9	88.8	94.3	109.2	119.2	110.9	103.7	93.2	82.7	80.5
57.5°	4165.9	2009.0	72.3	73.4	92.1	100.4	91.0	82.7	71.2	62.3	60.7
60°	4030.2	1766.9	59.6	55.2	71.2	78.3	72.3	64.0	53.5	46.9	46.3
62.5°	3761.0	1508.7	49.1	43.0	54.1	60.1	56.3	50.2	41.4	37.0	36.4
65°	3195.1	1207.0	39.7	34.8	41.9	46.9	43.6	39.2	32.5	29.2	28.7
67.5°	2230.3	815.9	32.5	28.7	33.1	37.0	34.2	32.0	25.9	25.4	25.9
70°	1075.7	393.3	27.0	23.2	25.9	28.7	27.6	25.9	24.8	28.7	33.1
72.5°	308.4	131.8	21.5	19.3	21.0	22.6	23.7	23.2	27.0	34.8	40.3
73°	237.2	106.5	20.4	18.2	19.9	22.1	23.2	22.6	27.6	35.3	40.3
75°	101.5	51.3	15.4	14.9	16.5	19.3	20.4	20.4	27.6	35.9	38.6
77.5°	45.8	27.6	9.9	11.6	14.3	15.4	17.1	17.1	22.1	27.6	27.6
80°	25.9	14.9	7.7	8.8	10.5	10.5	10.5	9.4	9.9	11.0	12.1
82.5°	16.5	9.9	6.1	7.2	6.6	5.5	4.4	4.4	3.9	4.4	5.5
85°	9.4	5.5	5.5	4.4	2.8	2.2	2.8	2.2	0.6	0.0	0.6
87.5°	5.5	3.3	1.7	0.0	0.0	0.0	0.0	0.0	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)