

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387102

Luminaire Tested: GAW-SA2D-750-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387102
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-750-U-T4FT-HSS
Description: GALLEON WALL 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: 11499 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

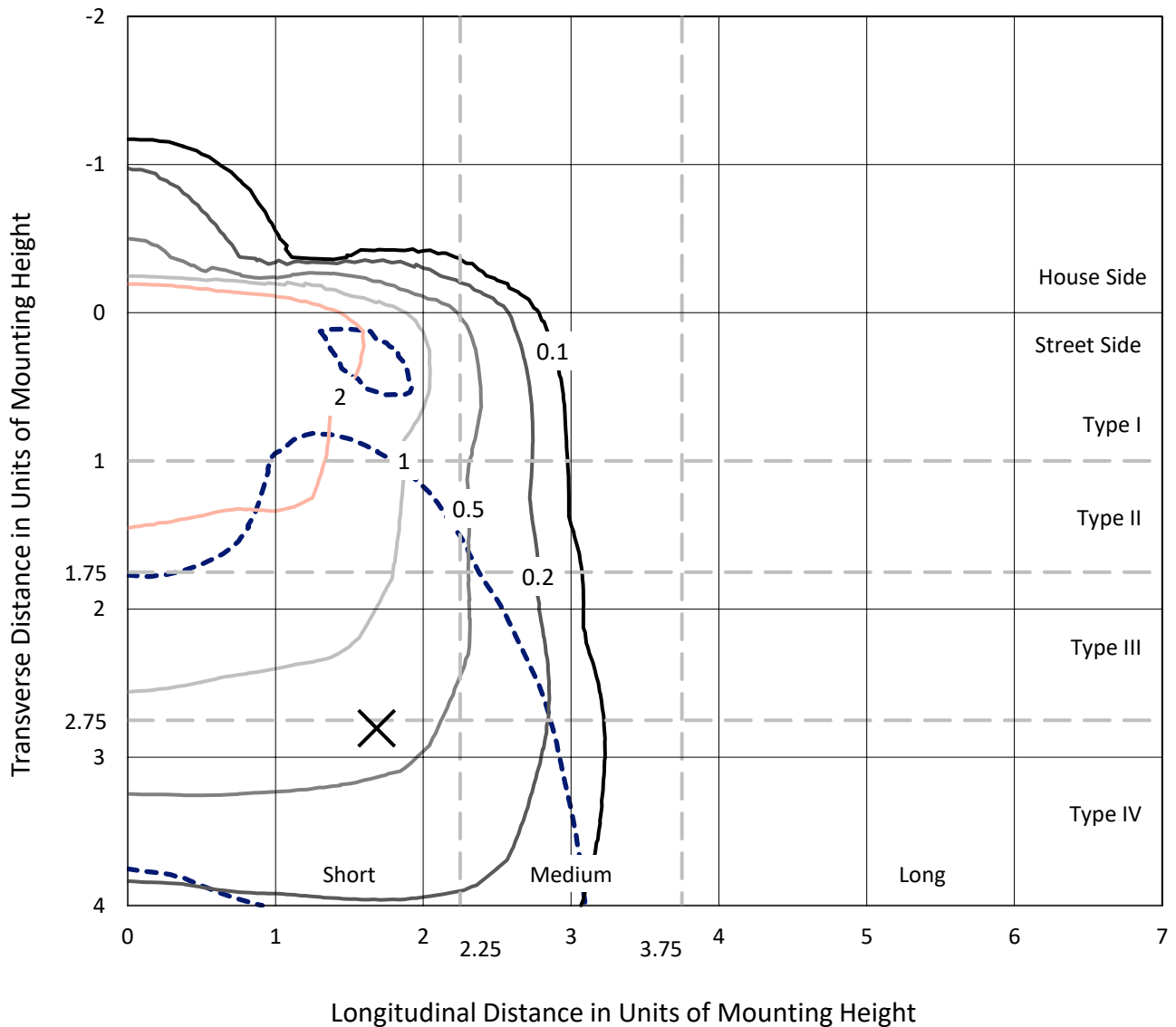
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

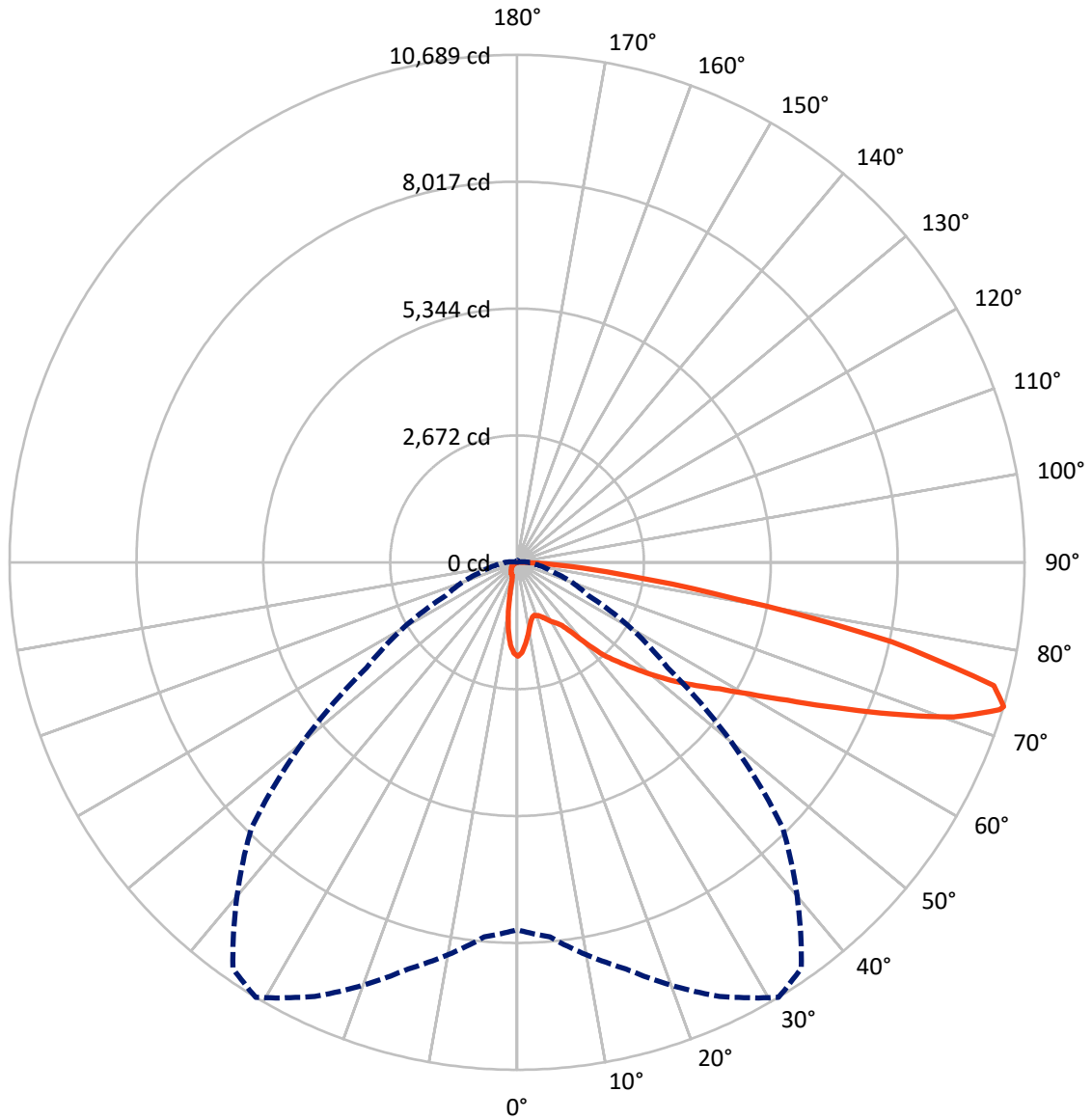
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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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	1048.2	0.0	1048.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	10450.8	0.0	10450.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	11499.0	0.0	11499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	1.4
10°-20°	356.2	3.1
20°-30°	533.7	4.6
30°-40°	849.0	7.4
40°-50°	1516.2	13.2
50°-60°	2352.7	20.5
60°-70°	3127.5	27.2
70°-80°	2352.5	20.5
80°-90°	247.2	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°	11499.0	100.0
0°-180°	11499.0	100.0

Coefficient of Utilization



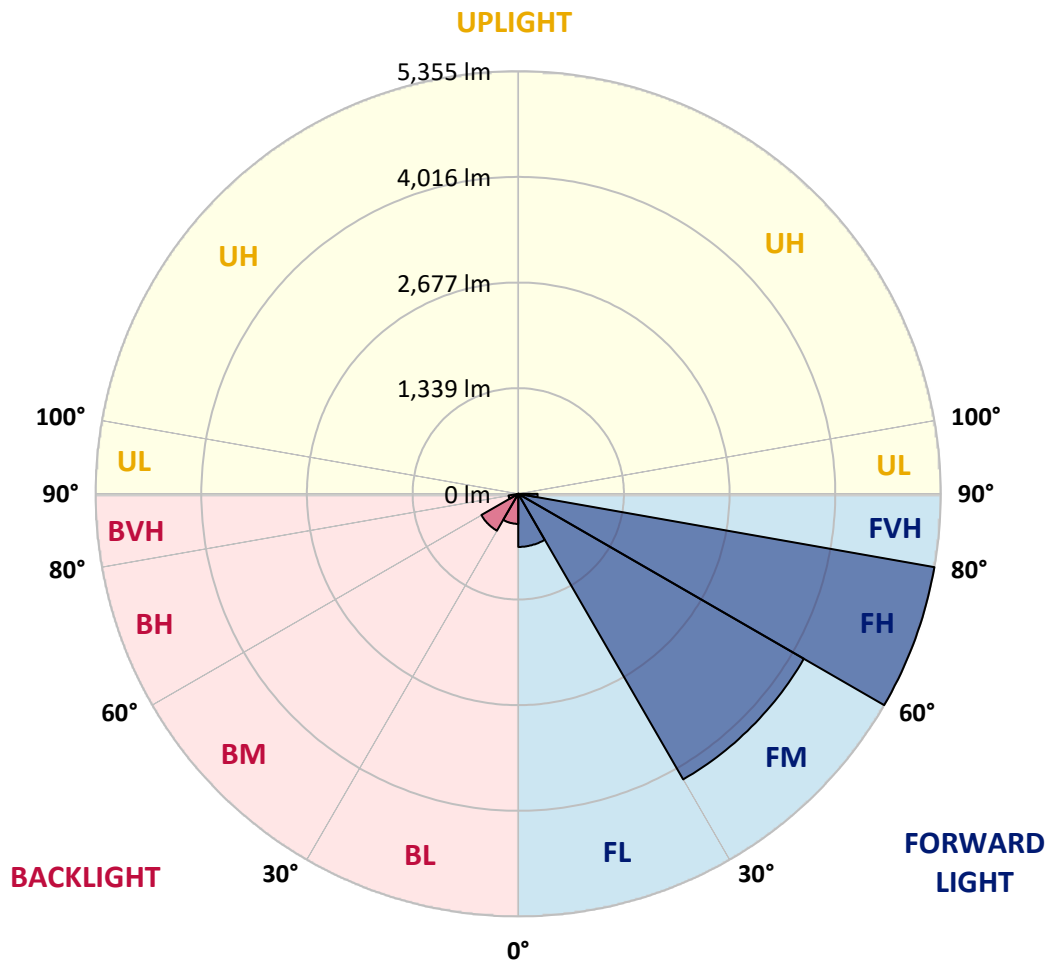
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.7	5.9			
FM (30°-60°)	4178.3	36.3			
FH (60°-80°)	5354.7	46.6			G3/7500
FVH (80°-90°)	245.1	2.1			G3/500
BL (0°-30°)	381.2	3.3	B1/500		
BM (30°-60°)	539.5	4.7	B1/1000		
BH (60°-80°)	125.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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°	31°	35°	45°	55°	65°	75°	85°
0°	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4
2.5°	1874.9	1882.8	1891.2	1892.9	1907.0	1907.5	1927.8	1943.0	1958.2	1972.8	1977.9
5°	1682.5	1695.4	1710.6	1725.8	1755.6	1767.4	1816.9	1867.6	1916.0	1962.1	1984.6
7.5°	1477.1	1491.7	1513.1	1550.8	1584.0	1607.0	1685.3	1775.3	1865.3	1950.3	1999.2
10°	1289.7	1303.2	1325.7	1365.7	1416.9	1448.4	1553.6	1678.5	1810.7	1939.6	2021.2
12.5°	1170.4	1177.7	1190.1	1232.9	1279.0	1314.4	1438.2	1593.0	1765.7	1939.0	2056.6
15°	1148.5	1150.7	1140.6	1159.7	1195.7	1230.0	1355.5	1523.8	1731.4	1948.0	2102.8
17.5°	1183.3	1182.2	1148.5	1146.2	1174.9	1203.0	1315.0	1475.9	1707.2	1968.9	2162.4
20°	1236.2	1232.3	1173.8	1163.1	1193.5	1219.9	1312.2	1457.9	1698.2	2003.7	2235.0
22.5°	1306.6	1299.8	1208.1	1196.8	1229.5	1257.1	1347.1	1475.4	1706.1	2050.5	2319.4
25°	1393.8	1383.7	1267.2	1254.8	1288.0	1315.6	1409.5	1525.5	1729.7	2107.3	2426.3
27.5°	1492.3	1477.6	1361.7	1329.6	1367.3	1396.0	1492.8	1602.0	1766.9	2167.5	2557.4
30°	1585.1	1566.0	1461.3	1408.4	1454.6	1486.6	1582.9	1693.1	1826.5	2260.3	2736.9
32.5°	1678.5	1657.1	1550.2	1487.2	1528.8	1563.7	1675.7	1818.6	1938.5	2402.1	2975.5
35°	1893.5	1871.0	1739.8	1635.7	1635.2	1654.9	1805.7	1990.2	2086.5	2599.6	3260.2
37.5°	2255.3	2242.3	2117.4	1919.9	1867.0	1845.1	1982.9	2195.1	2299.2	2871.4	3581.5
40°	2651.4	2640.2	2500.0	2321.1	2240.6	2186.6	2237.3	2480.3	2599.6	3203.4	3909.6
42.5°	3098.7	3045.3	2795.5	2742.0	2670.0	2628.9	2583.3	2832.0	2968.8	3564.7	4234.8
45°	3505.0	3415.0	3090.9	3009.8	2993.5	3003.7	3029.0	3304.7	3384.0	3994.0	4558.9
47.5°	3747.0	3676.1	3427.4	3349.7	3345.2	3412.2	3603.5	3838.7	3797.6	4368.2	4844.2
50°	3977.1	3913.0	3706.5	3725.6	3746.4	3837.6	4255.6	4387.9	4175.2	4707.5	5105.9
52.5°	4163.4	4065.5	3957.4	4064.9	4167.3	4314.2	4928.6	4880.8	4443.0	4977.6	5329.8
55°	4270.8	4226.4	4278.7	4386.8	4579.2	4817.8	5563.9	5291.0	4638.8	5224.0	5478.9
57.5°	4664.7	4577.5	4681.6	4775.0	5026.0	5359.6	6108.0	5596.5	4780.1	5376.5	5513.3
60°	5141.3	5071.0	5132.3	5287.6	5626.4	6018.6	6616.7	5845.8	4853.8	5474.4	5424.4
62.5°	5899.8	5807.0	5768.7	5942.6	6391.6	6819.8	7002.7	6018.6	4837.5	5431.1	5119.4
65°	6916.1	6819.8	6648.8	6806.3	7377.5	7679.6	7434.3	6055.1	4724.9	5080.5	4348.5
67.5°	7957.0	7887.3	7741.0	8006.6	8522.0	8619.3	7890.6	5966.2	4362.6	4119.5	3072.3
70°	8644.6	8614.8	8709.9	9297.4	9757.1	9729.0	8309.3	5488.5	3400.4	2533.2	1519.8
72.5°	8148.9	8291.8	8994.1	10059.3	10620.8	10391.2	8094.3	4214.6	1943.5	974.6	439.5
73°	7738.1	7921.0	8866.3	10087.9	10688.9	10437.4	7913.7	3868.5	1656.6	769.2	333.1
75°	5383.3	5607.8	7340.3	9395.3	10370.4	9944.5	6596.4	2367.8	767.5	341.0	134.5
77.5°	2613.7	2779.7	4041.8	6788.3	8065.1	7769.7	4106.5	882.3	346.6	213.3	61.9
80°	975.7	1084.9	1754.5	3454.9	4660.8	4782.9	1806.2	333.7	230.7	171.6	31.5
82.5°	255.5	284.7	647.1	1540.7	2388.6	2500.0	569.4	168.2	168.8	141.2	19.1
85°	81.6	93.4	202.0	691.5	1125.4	988.1	148.6	81.6	122.7	105.2	10.7
87.5°	10.1	12.9	64.1	162.6	248.1	137.9	23.1	24.2	52.3	58.5	6.2
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°	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4
2.5°	1982.9	1980.1	1980.7	1966.0	1956.5	1937.3	1917.7	1908.7	1899.1	1895.1	1899.1
5°	1993.1	1988.0	1973.4	1928.3	1880.5	1818.6	1760.7	1716.8	1661.6	1646.4	1662.2
7.5°	2008.8	1998.7	1955.9	1864.2	1757.9	1639.7	1506.9	1410.1	1330.8	1279.6	1298.1
10°	2031.9	2012.8	1926.7	1770.8	1580.6	1371.3	1182.8	1035.9	931.8	889.1	887.4
12.5°	2070.7	2034.7	1890.6	1649.3	1364.0	1084.9	837.8	678.6	594.2	539.6	538.5
15°	2113.5	2060.6	1845.1	1503.5	1111.9	777.1	539.6	418.6	364.1	346.6	344.4
17.5°	2165.8	2090.4	1786.0	1324.0	848.0	514.9	352.2	317.4	315.1	313.4	313.4
20°	2231.6	2125.9	1710.0	1118.6	601.5	343.8	299.4	301.6	302.7	300.5	301.0
22.5°	2308.2	2161.9	1619.4	898.1	406.8	287.5	286.4	289.2	290.3	289.2	289.8
25°	2397.1	2203.5	1509.1	666.8	293.7	272.9	275.7	279.7	282.5	282.5	282.5
27.5°	2507.4	2254.1	1376.3	465.3	253.8	257.7	265.6	272.9	276.8	278.0	278.0
30°	2650.8	2317.2	1217.1	319.0	230.7	237.5	252.1	266.2	273.5	274.6	275.2
32.5°	2832.0	2388.1	1032.5	235.8	211.0	216.1	231.8	255.5	269.5	271.8	271.8
35°	3039.7	2470.2	833.9	205.4	196.9	198.6	211.0	238.0	262.8	269.0	269.5
37.5°	3267.0	2551.2	634.2	191.9	185.1	185.1	194.1	217.2	246.5	265.6	267.8
40°	3479.1	2600.2	444.5	181.2	174.4	174.4	182.3	199.2	226.8	255.5	261.7
42.5°	3674.9	2617.1	309.5	171.1	164.3	166.0	172.7	186.3	207.1	235.8	241.4
45°	3876.4	2614.3	225.6	159.2	154.2	159.2	164.3	174.4	189.6	205.9	207.1
47.5°	4028.3	2590.6	178.9	148.0	144.6	151.4	155.9	162.6	171.1	169.9	169.9
50°	4170.7	2533.2	144.0	132.8	135.0	142.9	145.2	147.4	148.0	137.3	136.2
52.5°	4278.7	2443.8	115.4	116.5	125.5	133.4	131.1	127.7	122.1	109.2	106.9
55°	4314.7	2271.6	90.6	96.2	111.4	121.5	113.1	105.8	95.1	84.4	82.2
57.5°	4249.5	2049.3	73.7	74.8	94.0	102.4	92.8	84.4	72.6	63.6	61.9
60°	4111.0	1802.3	60.8	56.3	72.6	79.9	73.7	65.3	54.6	47.8	47.3
62.5°	3836.4	1539.0	50.1	43.9	55.1	61.3	57.4	51.2	42.2	37.7	37.1
65°	3259.1	1231.2	40.5	35.4	42.8	47.8	44.5	40.0	33.2	29.8	29.3
67.5°	2275.0	832.2	33.2	29.3	33.8	37.7	34.9	32.6	26.4	25.9	26.4
70°	1097.3	401.2	27.6	23.6	26.4	29.3	28.1	26.4	25.3	29.3	33.8
72.5°	314.5	134.5	21.9	19.7	21.4	23.1	24.2	23.6	27.6	35.4	41.1
73°	242.0	108.6	20.8	18.6	20.3	22.5	23.6	23.1	28.1	36.0	41.1
75°	103.5	52.3	15.8	15.2	16.9	19.7	20.8	20.8	28.1	36.6	39.4
77.5°	46.7	28.1	10.1	11.8	14.6	15.8	17.4	17.4	22.5	28.1	28.1
80°	26.4	15.2	7.9	9.0	10.7	10.7	10.7	9.6	10.1	11.3	12.4
82.5°	16.9	10.1	6.2	7.3	6.8	5.6	4.5	4.5	3.9	4.5	5.6
85°	9.6	5.6	5.6	4.5	2.8	2.3	2.8	2.3	0.6	0.0	0.6
87.5°	5.6	3.4	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)