

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: P322508

Luminaire Tested: **GAN-SA4A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322508
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-SA4A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 12158 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

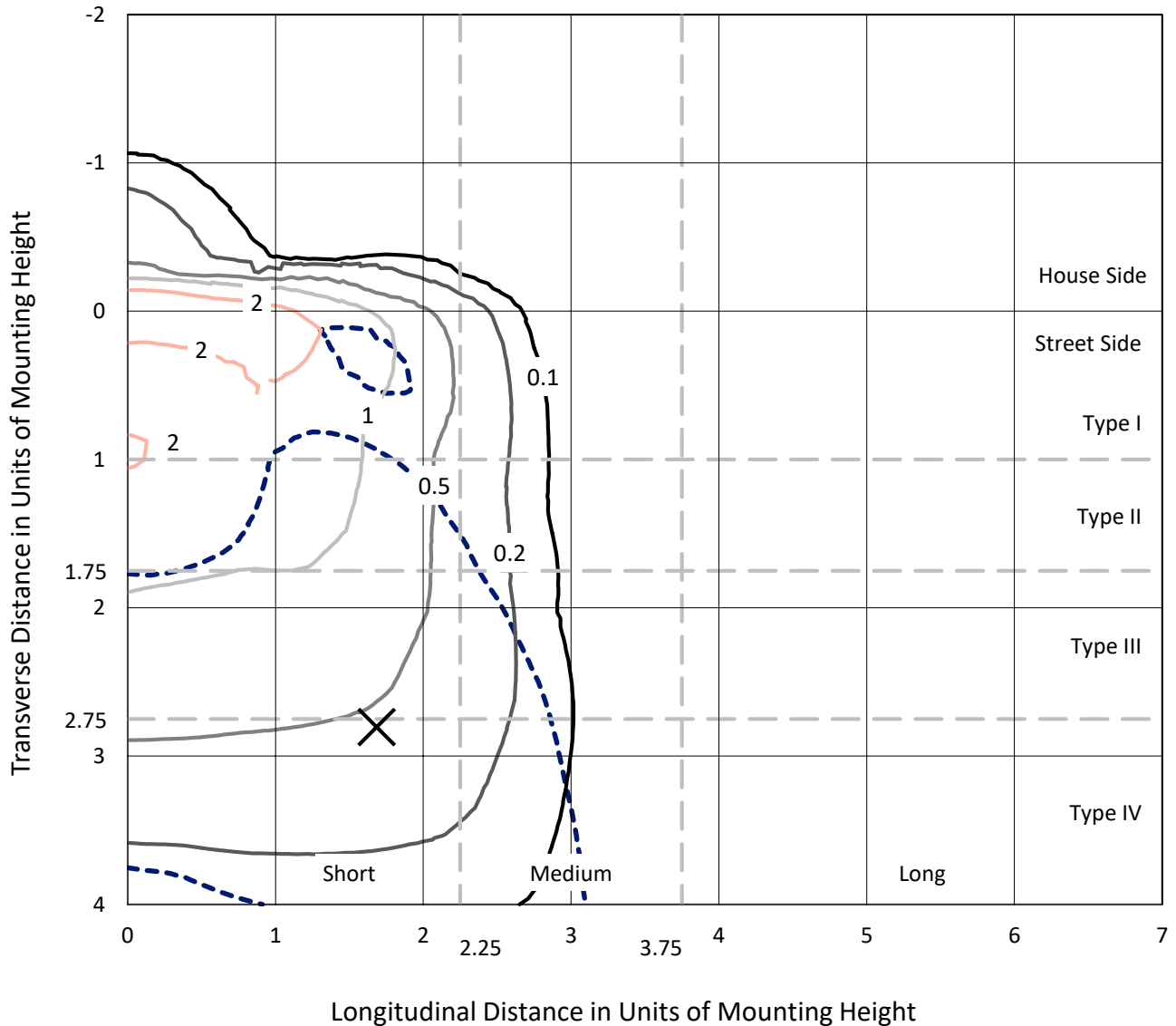
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

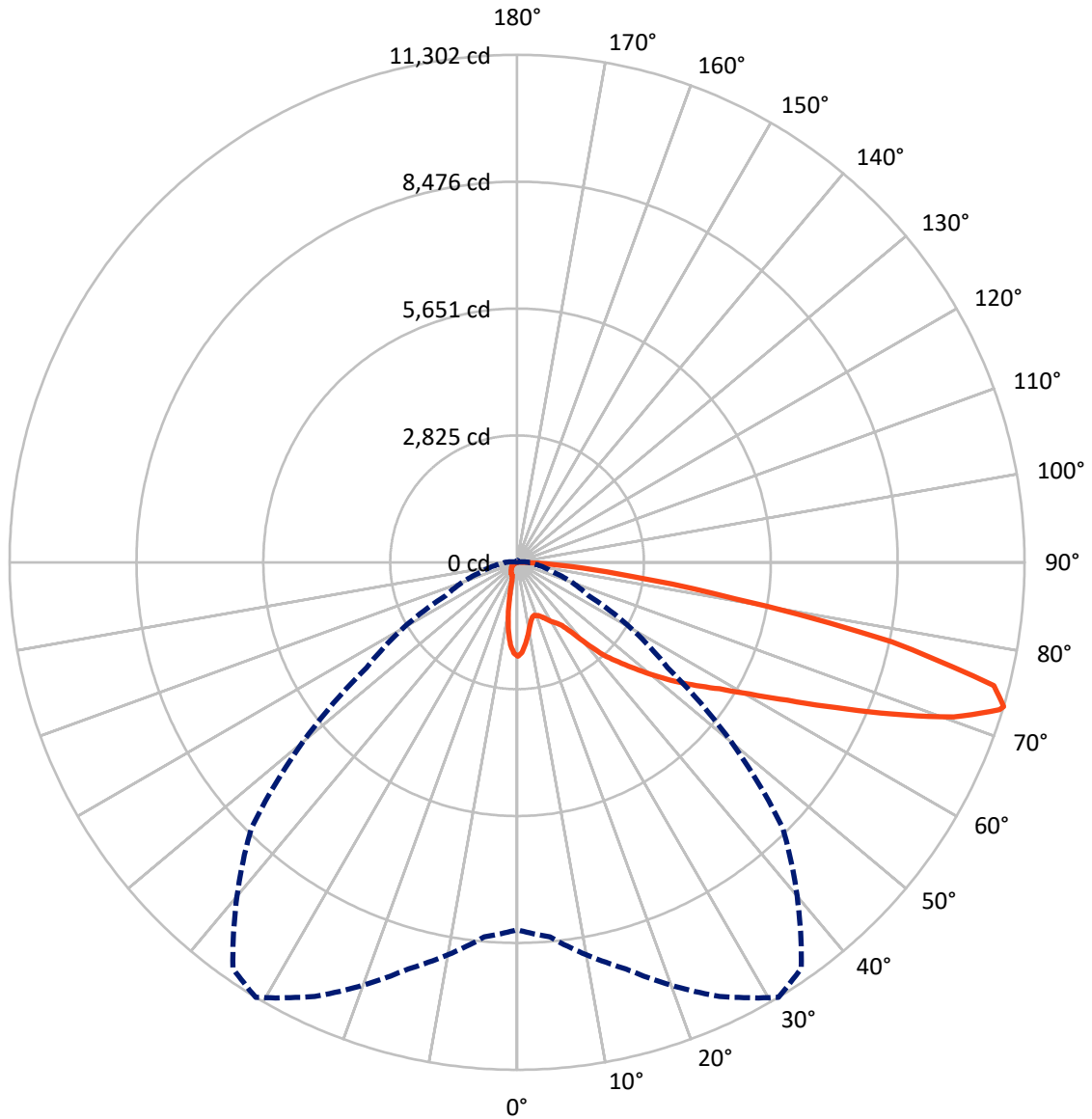
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1108.2	0.0	1108.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11049.8	0.0	11049.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	12158.0	0.0	12158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	1.4
10°-20°	376.6	3.1
20°-30°	564.2	4.6
30°-40°	897.7	7.4
40°-50°	1603.1	13.2
50°-60°	2487.5	20.5
60°-70°	3306.8	27.2
70°-80°	2487.4	20.5
80°-90°	261.4	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°	12158.0	100.0
0°-180°	12158.0	100.0

Coefficient of Utilization



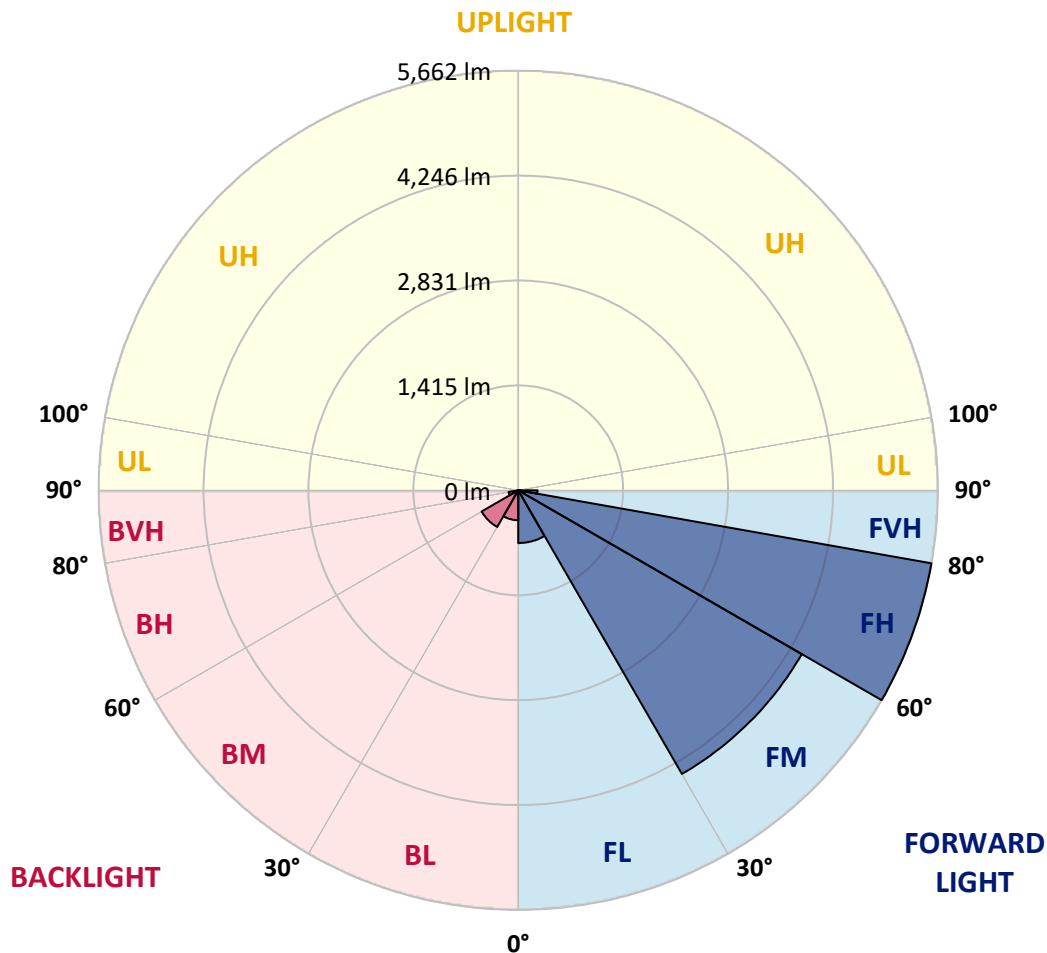
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.3	5.9			
FM (30°-60°)	4417.8	36.3			
FH (60°-80°)	5661.5	46.6			G3/7500
FVH (80°-90°)	259.2	2.1			G3/500
BL (0°-30°)	403.0	3.3	B1/500		
BM (30°-60°)	570.4	4.7	B1/1000		
BH (60°-80°)	132.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.2	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°	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8
2.5°	1982.3	1990.7	1999.6	2001.4	2016.3	2016.8	2038.3	2054.3	2070.4	2085.9	2091.2
5°	1778.9	1792.6	1808.6	1824.7	1856.2	1868.7	1921.1	1974.6	2025.8	2074.6	2098.4
7.5°	1561.7	1577.2	1599.8	1639.7	1674.8	1699.1	1781.8	1877.0	1972.2	2062.1	2113.8
10°	1363.6	1377.9	1401.7	1443.9	1498.1	1531.4	1642.6	1774.7	1914.5	2050.8	2137.0
12.5°	1237.5	1245.2	1258.3	1303.5	1352.3	1389.8	1520.7	1684.3	1866.9	2050.2	2174.5
15°	1214.3	1216.7	1205.9	1226.2	1264.2	1300.5	1433.2	1611.1	1830.6	2059.7	2223.3
17.5°	1251.2	1250.0	1214.3	1211.9	1242.2	1272.0	1390.4	1560.5	1805.0	2081.7	2286.4
20°	1307.1	1302.9	1241.0	1229.7	1261.9	1289.8	1387.4	1541.5	1795.5	2118.6	2363.1
22.5°	1381.5	1374.3	1277.3	1265.4	1299.9	1329.1	1424.3	1559.9	1803.9	2168.0	2452.3
25°	1473.7	1463.0	1339.8	1326.7	1361.8	1391.0	1490.3	1612.9	1828.8	2228.1	2565.4
27.5°	1577.8	1562.3	1439.8	1405.8	1445.7	1476.0	1578.4	1693.8	1868.1	2291.7	2704.0
30°	1675.9	1655.7	1545.1	1489.1	1537.9	1571.8	1673.6	1790.2	1931.2	2389.9	2893.8
32.5°	1774.7	1752.1	1639.1	1572.4	1616.5	1653.3	1771.7	1922.8	2049.6	2539.8	3146.0
35°	2002.0	1978.2	1839.6	1729.5	1728.9	1749.7	1909.2	2104.3	2206.0	2748.6	3447.1
37.5°	2384.5	2370.8	2238.8	2029.9	1974.0	1950.8	2096.6	2320.9	2430.9	3036.0	3786.8
40°	2803.4	2791.5	2643.3	2454.1	2369.1	2311.9	2365.5	2622.5	2748.6	3387.0	4133.6
42.5°	3276.3	3219.8	2955.7	2899.1	2823.0	2779.6	2731.4	2994.3	3138.9	3768.9	4477.5
45°	3705.9	3610.7	3268.0	3182.3	3165.1	3175.8	3202.6	3494.1	3578.0	4222.9	4820.2
47.5°	3961.7	3886.7	3623.8	3541.7	3536.9	3607.7	3810.0	4058.7	4015.2	4618.5	5121.8
50°	4205.0	4137.2	3918.9	3939.1	3961.1	4057.5	4499.5	4639.3	4414.5	4977.3	5398.5
52.5°	4402.0	4298.4	4184.2	4297.8	4406.1	4561.4	5211.1	5160.5	4697.6	5262.8	5635.3
55°	4515.6	4468.6	4523.9	4638.2	4841.6	5093.9	5882.8	5594.2	4904.7	5523.4	5792.9
57.5°	4932.1	4839.8	4949.9	5048.7	5314.0	5666.8	6458.1	5917.3	5054.0	5684.7	5829.2
60°	5436.0	5361.6	5426.4	5590.7	5948.8	6363.5	6995.9	6180.8	5132.0	5788.2	5735.2
62.5°	6237.9	6139.8	6099.3	6283.2	6757.9	7210.7	7404.0	6363.5	5114.7	5742.4	5412.8
65°	7312.4	7210.7	7029.8	7196.4	7800.3	8119.7	7860.3	6402.1	4995.7	5371.7	4597.7
67.5°	8413.0	8339.3	8184.6	8465.4	9010.4	9113.3	8342.8	6308.1	4612.6	4355.6	3248.4
70°	9140.1	9108.5	9209.1	9830.2	10316.3	10286.5	8785.5	5803.0	3595.2	2678.4	1606.9
72.5°	8615.9	8767.0	9509.5	10635.7	11229.5	10986.8	8558.2	4456.1	2054.9	1030.4	464.6
73°	8181.6	8375.0	9374.5	10666.1	11301.5	11035.5	8367.2	4090.2	1751.5	813.3	352.2
75°	5691.8	5929.2	7761.0	9933.7	10964.7	10514.4	6974.5	2503.5	811.5	360.5	142.2
77.5°	2763.5	2939.0	4273.5	7177.4	8527.3	8214.9	4341.9	932.9	366.5	225.5	65.4
80°	1031.6	1147.0	1855.0	3652.9	4927.9	5057.0	1909.8	352.8	243.9	181.5	33.3
82.5°	270.1	301.0	684.2	1628.9	2525.5	2643.3	602.1	177.9	178.5	149.3	20.2
85°	86.3	98.8	213.6	731.2	1189.9	1044.7	157.1	86.3	129.7	111.3	11.3
87.5°	10.7	13.7	67.8	171.9	262.4	145.8	24.4	25.6	55.3	61.9	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°	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8	2091.8
2.5°	2096.6	2093.6	2094.2	2078.7	2068.6	2048.4	2027.6	2018.0	2007.9	2003.8	2007.9
5°	2107.3	2101.9	2086.5	2038.9	1988.3	1922.8	1861.6	1815.2	1756.9	1740.8	1757.5
7.5°	2123.9	2113.2	2068.0	1971.0	1858.6	1733.7	1593.2	1490.9	1407.0	1352.9	1372.5
10°	2148.3	2128.1	2037.1	1872.3	1671.2	1449.9	1250.6	1095.3	985.2	940.0	938.2
12.5°	2189.4	2151.3	1999.0	1743.8	1442.1	1147.0	885.9	717.5	628.3	570.5	569.4
15°	2234.6	2178.7	1950.8	1589.7	1175.6	821.6	570.5	442.6	384.9	366.5	364.1
17.5°	2289.9	2210.2	1888.3	1399.9	896.6	544.4	372.4	335.5	333.2	331.4	331.4
20°	2359.5	2247.7	1808.0	1182.7	636.0	363.5	316.5	318.9	320.1	317.7	318.3
22.5°	2440.4	2285.8	1712.2	949.5	430.1	304.0	302.8	305.8	307.0	305.8	306.4
25°	2534.4	2329.8	1595.6	705.0	310.6	288.5	291.5	295.7	298.7	298.7	298.7
27.5°	2651.1	2383.3	1455.2	492.0	268.3	272.5	280.8	288.5	292.7	293.9	293.9
30°	2802.8	2450.0	1286.9	337.3	243.9	251.1	266.5	281.4	289.1	290.3	290.9
32.5°	2994.3	2524.9	1091.7	249.3	223.1	228.5	245.1	270.1	285.0	287.4	287.4
35°	3213.9	2611.8	881.7	217.2	208.2	210.0	223.1	251.7	277.8	284.4	285.0
37.5°	3454.2	2697.5	670.5	202.9	195.7	195.7	205.3	229.6	260.6	280.8	283.2
40°	3678.5	2749.2	470.0	191.6	184.4	184.4	192.8	210.6	239.8	270.1	276.6
42.5°	3885.6	2767.1	327.2	180.9	173.7	175.5	182.6	196.9	218.9	249.3	255.2
45°	4098.5	2764.1	238.6	168.4	163.0	168.4	173.7	184.4	200.5	217.7	218.9
47.5°	4259.2	2739.1	189.2	156.5	152.9	160.0	164.8	171.9	180.9	179.7	179.7
50°	4409.7	2678.4	152.3	140.4	142.8	151.1	153.5	155.9	156.5	145.2	144.0
52.5°	4523.9	2583.8	122.0	123.2	132.7	141.0	138.6	135.1	129.1	115.4	113.0
55°	4562.0	2401.8	95.8	101.7	117.8	128.5	119.6	111.8	100.5	89.2	86.9
57.5°	4493.0	2166.8	77.9	79.1	99.4	108.3	98.2	89.2	76.7	67.2	65.4
60°	4346.6	1905.6	64.3	59.5	76.7	84.5	77.9	69.0	57.7	50.6	50.0
62.5°	4056.3	1627.2	52.9	46.4	58.3	64.8	60.7	54.1	44.6	39.9	39.3
65°	3445.9	1301.7	42.8	37.5	45.2	50.6	47.0	42.2	35.1	31.5	30.9
67.5°	2405.3	879.9	35.1	30.9	35.7	39.9	36.9	34.5	28.0	27.4	28.0
70°	1160.1	424.2	29.2	25.0	28.0	30.9	29.7	28.0	26.8	30.9	35.7
72.5°	332.6	142.2	23.2	20.8	22.6	24.4	25.6	25.0	29.2	37.5	43.4
73°	255.8	114.8	22.0	19.6	21.4	23.8	25.0	24.4	29.7	38.1	43.4
75°	109.5	55.3	16.7	16.1	17.8	20.8	22.0	22.0	29.7	38.7	41.6
77.5°	49.4	29.7	10.7	12.5	15.5	16.7	18.4	18.4	23.8	29.7	29.7
80°	28.0	16.1	8.3	9.5	11.3	11.3	11.3	10.1	10.7	11.9	13.1
82.5°	17.8	10.7	6.5	7.7	7.1	5.9	4.8	4.8	4.2	4.8	5.9
85°	10.1	5.9	5.9	4.8	3.0	2.4	3.0	2.4	0.6	0.0	0.6
87.5°	5.9	3.6	1.8	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)