

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: P322709

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322709
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-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: 13143 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

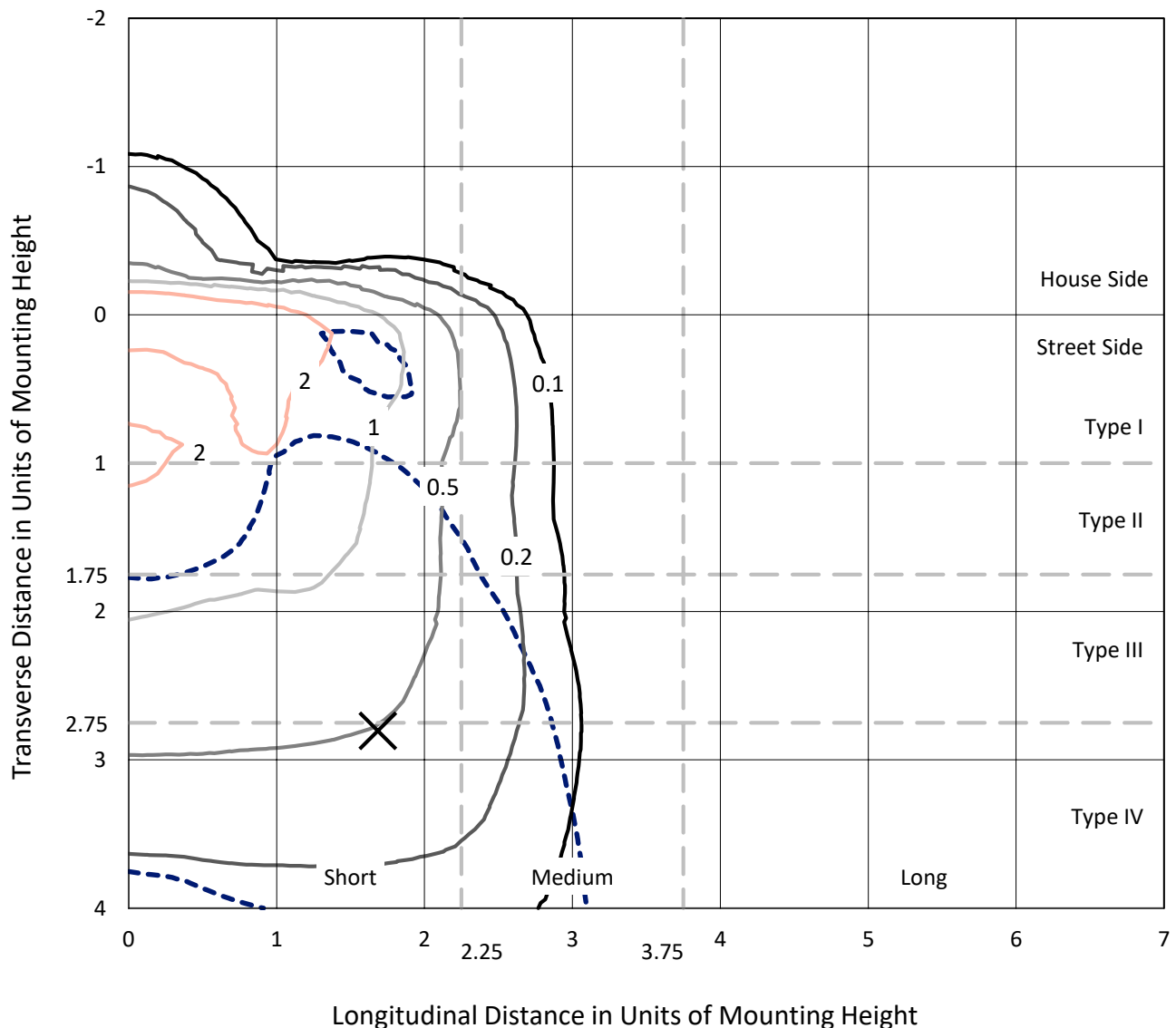
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

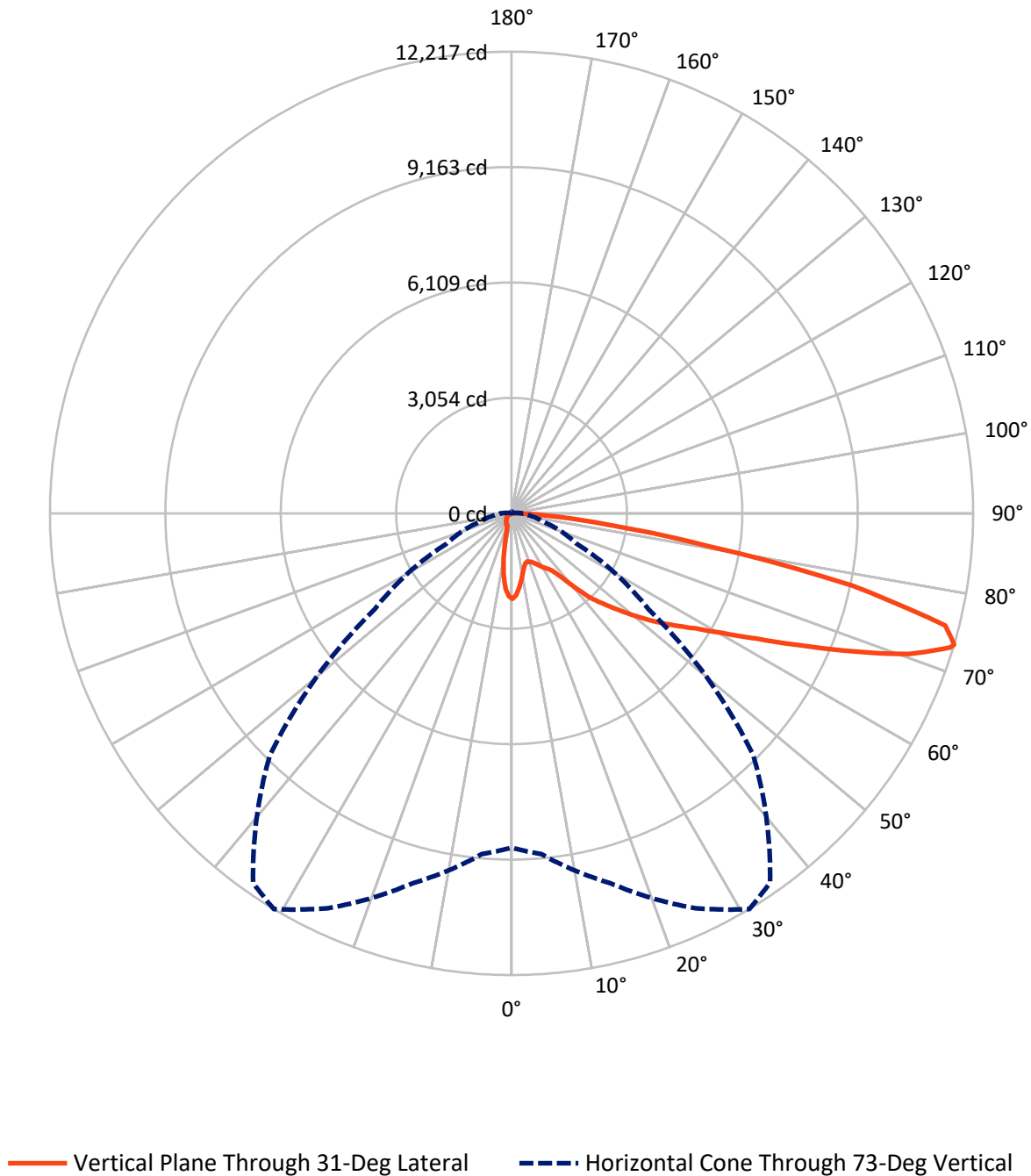
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.0	0.0	1198.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11945.0	0.0	11945.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	13143.0	0.0	13143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	1.4
10°-20°	407.1	3.1
20°-30°	610.0	4.6
30°-40°	970.4	7.4
40°-50°	1732.9	13.2
50°-60°	2689.0	20.5
60°-70°	3574.7	27.2
70°-80°	2688.9	20.5
80°-90°	282.5	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°	13143.0	100.0
0°-180°	13143.0	100.0

Coefficient of Utilization



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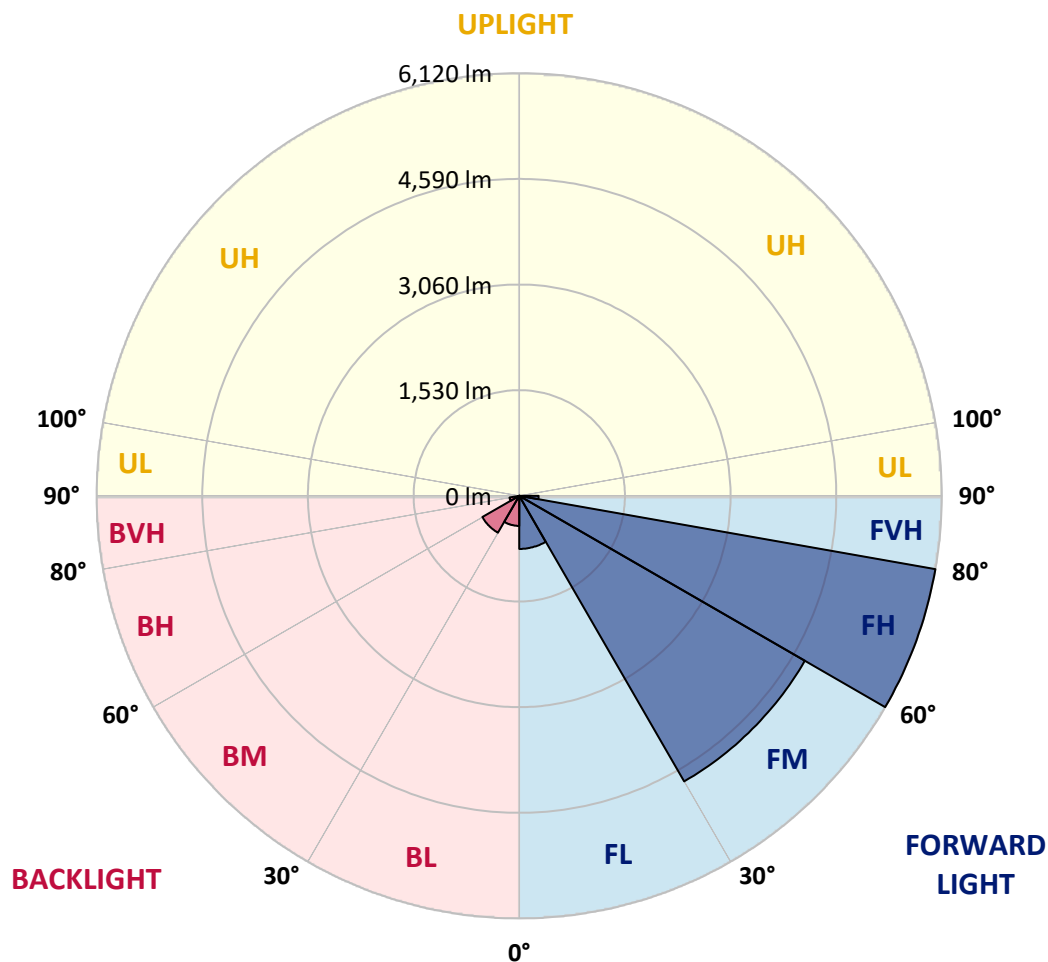
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.9	5.9			
FM	(30°-60°)	4775.7	36.3			
FH	(60°-80°)	6120.2	46.6			G3/7500
FVH	(80°-90°)	280.2	2.1			G3/500
BL	(0°-30°)	435.7	3.3	B1/500		
BM	(30°-60°)	616.7	4.7	B1/1000		
BH	(60°-80°)	143.3	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2142.9	2151.9	2161.6	2163.5	2179.6	2180.2	2203.4	2220.8	2238.1	2254.8	2260.6
5°	1923.0	1937.8	1955.1	1972.5	2006.6	2020.1	2076.7	2134.6	2189.9	2242.6	2268.4
7.5°	1688.2	1705.0	1729.4	1772.5	1810.4	1836.8	1926.2	2029.1	2132.0	2229.1	2285.1
10°	1474.1	1489.5	1515.2	1560.9	1619.4	1655.4	1775.7	1918.5	2069.6	2216.9	2310.2
12.5°	1337.7	1346.1	1360.2	1409.1	1461.9	1502.4	1643.9	1820.7	2018.2	2216.3	2350.7
15°	1312.6	1315.2	1303.6	1325.5	1366.7	1405.9	1549.3	1741.6	1978.9	2226.6	2403.4
17.5°	1352.5	1351.2	1312.6	1310.1	1342.9	1375.0	1503.0	1687.0	1951.3	2250.3	2471.6
20°	1413.0	1408.5	1341.6	1329.4	1364.1	1394.3	1499.8	1666.4	1941.0	2290.2	2554.6
22.5°	1493.4	1485.7	1380.8	1368.0	1405.3	1436.8	1539.7	1686.3	1950.0	2343.6	2651.0
25°	1593.1	1581.5	1448.4	1434.2	1472.1	1503.7	1611.1	1743.6	1977.0	2408.6	2773.2
27.5°	1705.6	1688.9	1556.4	1519.7	1562.8	1595.6	1706.3	1831.0	2019.5	2477.4	2923.1
30°	1811.7	1789.9	1670.2	1609.8	1662.5	1699.2	1809.2	1935.2	2087.6	2583.5	3128.2
32.5°	1918.5	1894.0	1771.9	1699.8	1747.4	1787.3	1915.3	2078.6	2215.6	2745.6	3400.9
35°	2164.2	2138.4	1988.6	1869.6	1869.0	1891.5	2063.8	2274.8	2384.8	2971.3	3726.4
37.5°	2577.7	2562.9	2420.1	2194.4	2133.9	2108.9	2266.4	2508.9	2627.9	3281.9	4093.6
40°	3030.5	3017.6	2857.5	2653.0	2561.0	2499.2	2557.1	2835.0	2971.3	3661.4	4468.5
42.5°	3541.8	3480.7	3195.1	3134.0	3051.7	3004.7	2952.7	3236.9	3393.2	4074.3	4840.3
45°	4006.1	3903.2	3532.8	3440.2	3421.5	3433.1	3462.0	3777.2	3867.8	4565.0	5210.7
47.5°	4282.7	4201.6	3917.4	3828.6	3823.5	3900.0	4118.7	4387.5	4340.6	4992.7	5536.8
50°	4545.7	4472.4	4236.4	4258.2	4282.0	4386.2	4864.1	5015.2	4772.1	5380.5	5835.9
52.5°	4758.6	4646.7	4523.2	4646.0	4763.1	4931.0	5633.3	5578.6	5078.2	5689.2	6091.8
55°	4881.4	4830.6	4890.4	5013.9	5233.9	5506.6	6359.4	6047.4	5302.0	5970.9	6262.3
57.5°	5331.6	5231.9	5350.9	5457.7	5744.5	6125.9	6981.3	6396.7	5463.5	6145.2	6301.5
60°	5876.4	5796.0	5866.1	6043.6	6430.8	6879.0	7562.7	6681.6	5547.7	6257.1	6199.9
62.5°	6743.3	6637.2	6593.5	6792.2	7305.4	7794.9	8003.9	6879.0	5529.1	6207.6	5851.3
65°	7904.8	7794.9	7599.3	7779.4	8432.2	8777.6	8497.2	6920.8	5400.4	5806.9	4970.2
67.5°	9094.6	9014.9	8847.7	9151.2	9740.4	9851.6	9018.8	6819.2	4986.3	4708.4	3511.5
70°	9880.6	9846.5	9955.2	10626.6	11152.0	11119.9	9497.2	6273.2	3886.5	2895.4	1737.1
72.5°	9314.0	9477.3	10279.9	11497.4	12139.3	11876.9	9251.6	4817.1	2221.4	1113.9	502.3
73°	8844.5	9053.5	10134.0	11530.2	12217.1	11929.6	9045.1	4421.6	1893.4	879.2	380.7
75°	6152.9	6409.5	8389.8	10738.5	11853.1	11366.2	7539.5	2706.3	877.2	389.7	153.7
77.5°	2987.4	3177.1	4619.7	7758.8	9218.1	8880.5	4693.6	1008.4	396.2	243.8	70.7
80°	1115.2	1240.0	2005.3	3948.9	5327.1	5466.7	2064.5	381.4	263.7	196.2	36.0
82.5°	292.0	325.4	739.6	1760.9	2730.1	2857.5	650.9	192.3	192.9	161.4	21.9
85°	93.3	106.8	230.9	790.4	1286.3	1129.4	169.8	93.3	140.2	120.3	12.2
87.5°	11.6	14.8	73.3	185.9	283.6	157.6	26.4	27.7	59.8	66.9	7.1
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°	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2266.4	2263.2	2263.9	2247.1	2236.2	2214.3	2191.8	2181.5	2170.6	2166.1	2170.6
5°	2278.0	2272.2	2255.5	2204.0	2149.4	2078.6	2012.4	1962.2	1899.2	1881.8	1899.8
7.5°	2296.0	2284.4	2235.6	2130.7	2009.2	1874.1	1722.3	1611.7	1521.0	1462.5	1483.7
10°	2322.4	2300.5	2202.1	2024.0	1806.6	1567.3	1351.9	1184.0	1065.0	1016.2	1014.2
12.5°	2366.8	2325.6	2161.0	1885.0	1559.0	1240.0	957.6	775.6	679.2	616.8	615.5
15°	2415.6	2355.2	2108.9	1718.5	1270.8	888.2	616.8	478.5	416.1	396.2	393.6
17.5°	2475.4	2389.3	2041.3	1513.3	969.2	588.5	402.6	362.7	360.2	358.2	358.2
20°	2550.7	2429.8	1954.5	1278.6	687.5	393.0	342.2	344.7	346.0	343.4	344.1
22.5°	2638.2	2470.9	1851.0	1026.5	465.0	328.6	327.4	330.6	331.9	330.6	331.2
25°	2739.8	2518.5	1724.9	762.1	335.7	311.9	315.1	319.6	322.9	322.9	322.9
27.5°	2865.8	2576.4	1573.1	531.9	290.1	294.6	303.6	311.9	316.4	317.7	317.7
30°	3029.8	2648.5	1391.1	364.7	263.7	271.4	288.1	304.2	312.6	313.9	314.5
32.5°	3236.9	2729.5	1180.2	269.5	241.2	247.0	265.0	292.0	308.1	310.6	310.6
35°	3474.2	2823.4	953.1	234.7	225.1	227.0	241.2	272.0	300.3	307.4	308.1
37.5°	3734.1	2916.0	724.8	219.3	211.6	211.6	221.9	248.3	281.7	303.6	306.1
40°	3976.5	2971.9	508.1	207.1	199.4	199.4	208.4	227.7	259.2	292.0	299.1
42.5°	4200.3	2991.2	353.7	195.5	187.8	189.7	197.4	212.9	236.7	269.5	275.9
45°	4430.6	2988.0	257.9	182.0	176.2	182.0	187.8	199.4	216.7	235.4	236.7
47.5°	4604.2	2961.0	204.5	169.1	165.3	173.0	178.1	185.9	195.5	194.2	194.2
50°	4767.0	2895.4	164.6	151.8	154.4	163.4	165.9	168.5	169.1	156.9	155.6
52.5°	4890.4	2793.2	131.8	133.1	143.4	152.4	149.9	146.0	139.6	124.8	122.2
55°	4931.6	2596.4	103.5	110.0	127.3	138.9	129.3	120.9	108.7	96.5	93.9
57.5°	4857.0	2342.3	84.3	85.5	107.4	117.1	106.1	96.5	83.0	72.7	70.7
60°	4698.8	2060.0	69.5	64.3	83.0	91.3	84.3	74.6	62.4	54.7	54.0
62.5°	4384.9	1759.0	57.2	50.2	63.0	70.1	65.6	58.5	48.2	43.1	42.4
65°	3725.1	1407.2	46.3	40.5	48.9	54.7	50.8	45.7	37.9	34.1	33.4
67.5°	2600.2	951.2	37.9	33.4	38.6	43.1	39.9	37.3	30.2	29.6	30.2
70°	1254.1	458.6	31.5	27.0	30.2	33.4	32.2	30.2	28.9	33.4	38.6
72.5°	359.5	153.7	25.1	22.5	24.4	26.4	27.7	27.0	31.5	40.5	46.9
73°	276.6	124.1	23.8	21.2	23.2	25.7	27.0	26.4	32.2	41.2	46.9
75°	118.3	59.8	18.0	17.4	19.3	22.5	23.8	23.8	32.2	41.8	45.0
77.5°	53.4	32.2	11.6	13.5	16.7	18.0	19.9	19.9	25.7	32.2	32.2
80°	30.2	17.4	9.0	10.3	12.2	12.2	12.2	10.9	11.6	12.9	14.1
82.5°	19.3	11.6	7.1	8.4	7.7	6.4	5.1	5.1	4.5	5.1	6.4
85°	10.9	6.4	6.4	5.1	3.2	2.6	3.2	2.6	0.6	0.0	0.6
87.5°	6.4	3.9	1.9	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)