

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: P321748

Luminaire Tested: **GAN-SA4A-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11488 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

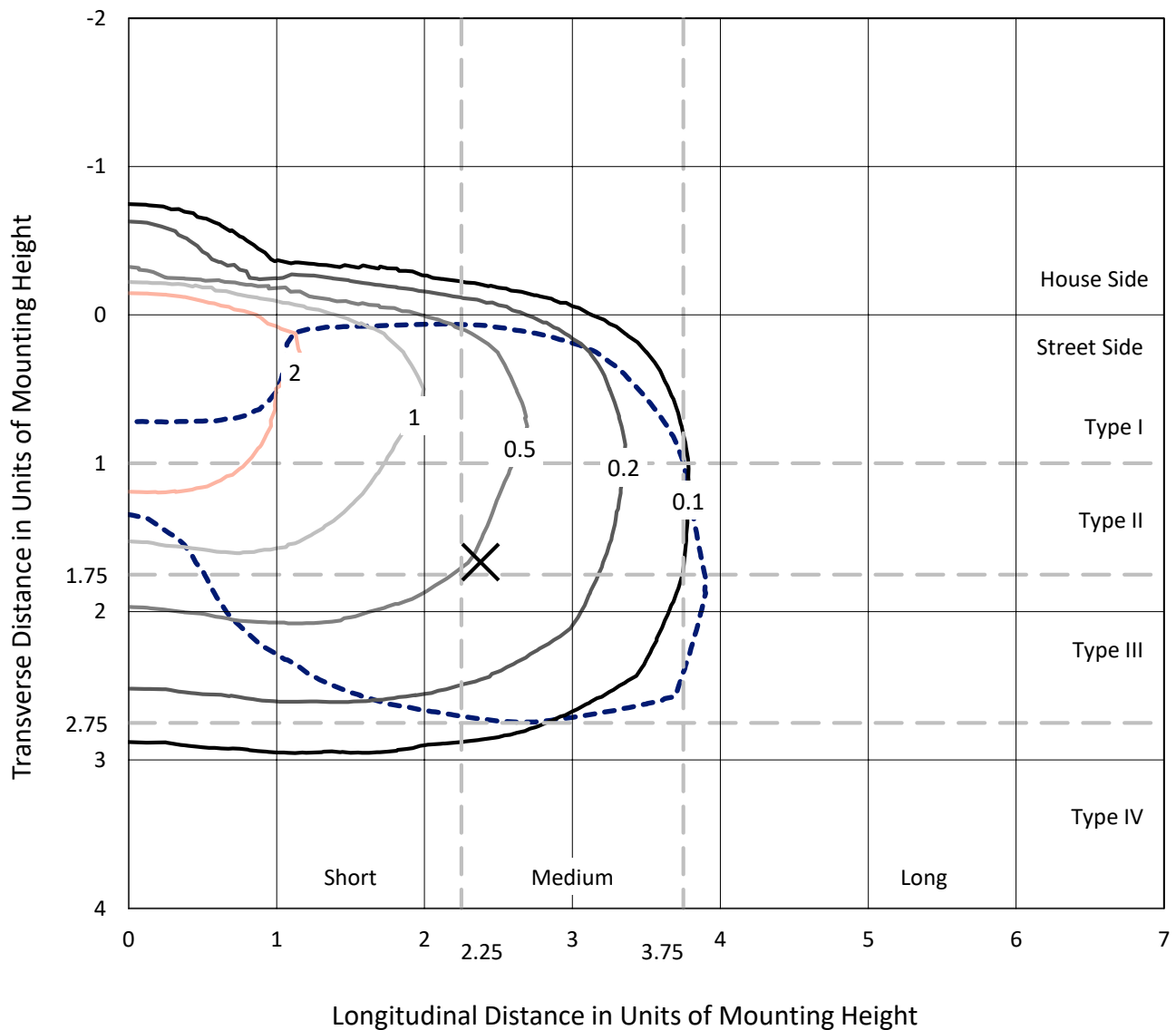
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

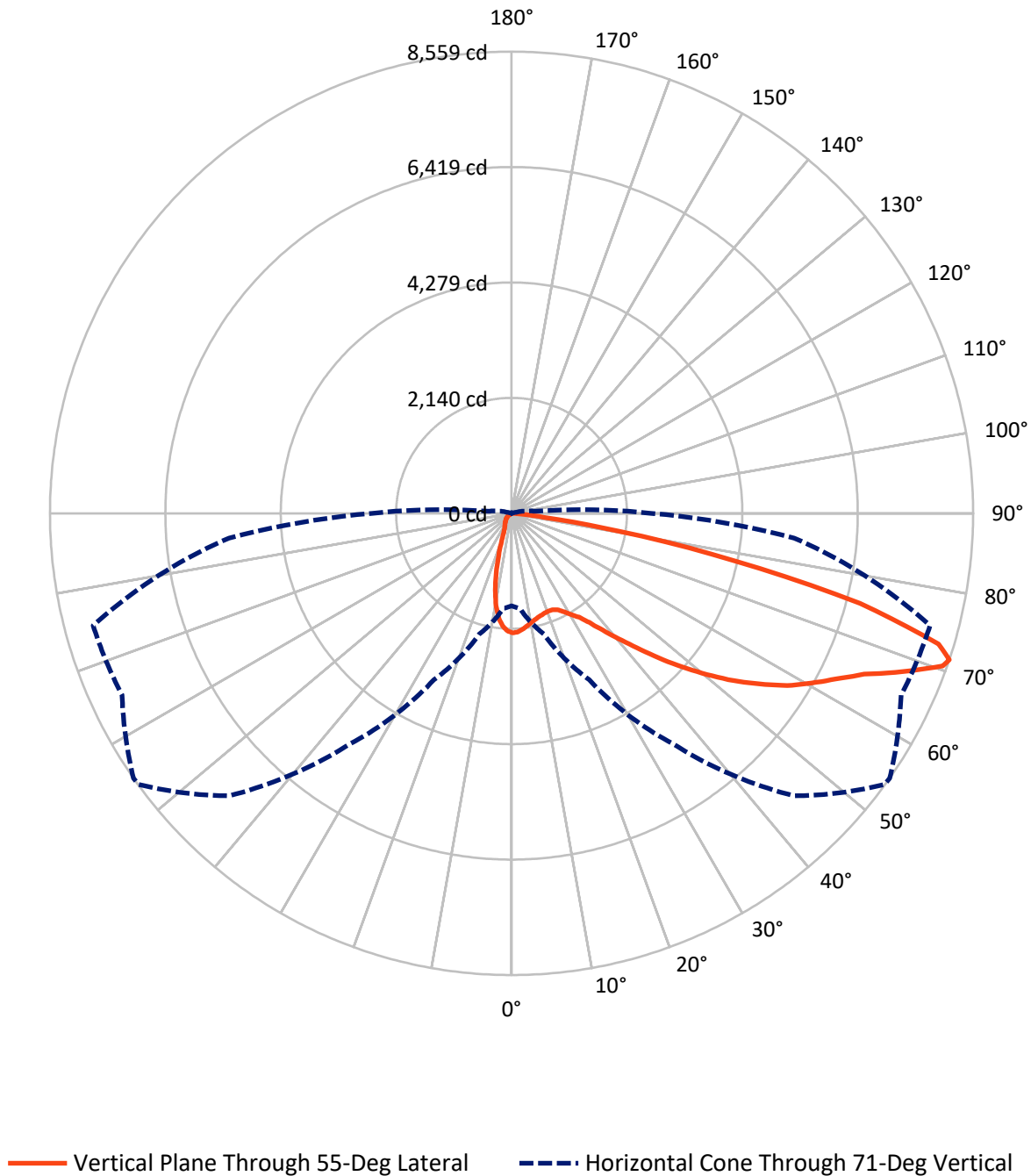
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.5	0.0	909.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10578.5	0.0	10578.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	11488.0	0.0	11488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.6
10°-20°	426.5	3.7
20°-30°	685.3	6.0
30°-40°	1164.4	10.1
40°-50°	1807.3	15.7
50°-60°	2429.9	21.2
60°-70°	2972.6	25.9
70°-80°	1738.0	15.1
80°-90°	75.1	0.7
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°	11488.0	100.0
0°-180°	11488.0	100.0

Coefficient of Utilization



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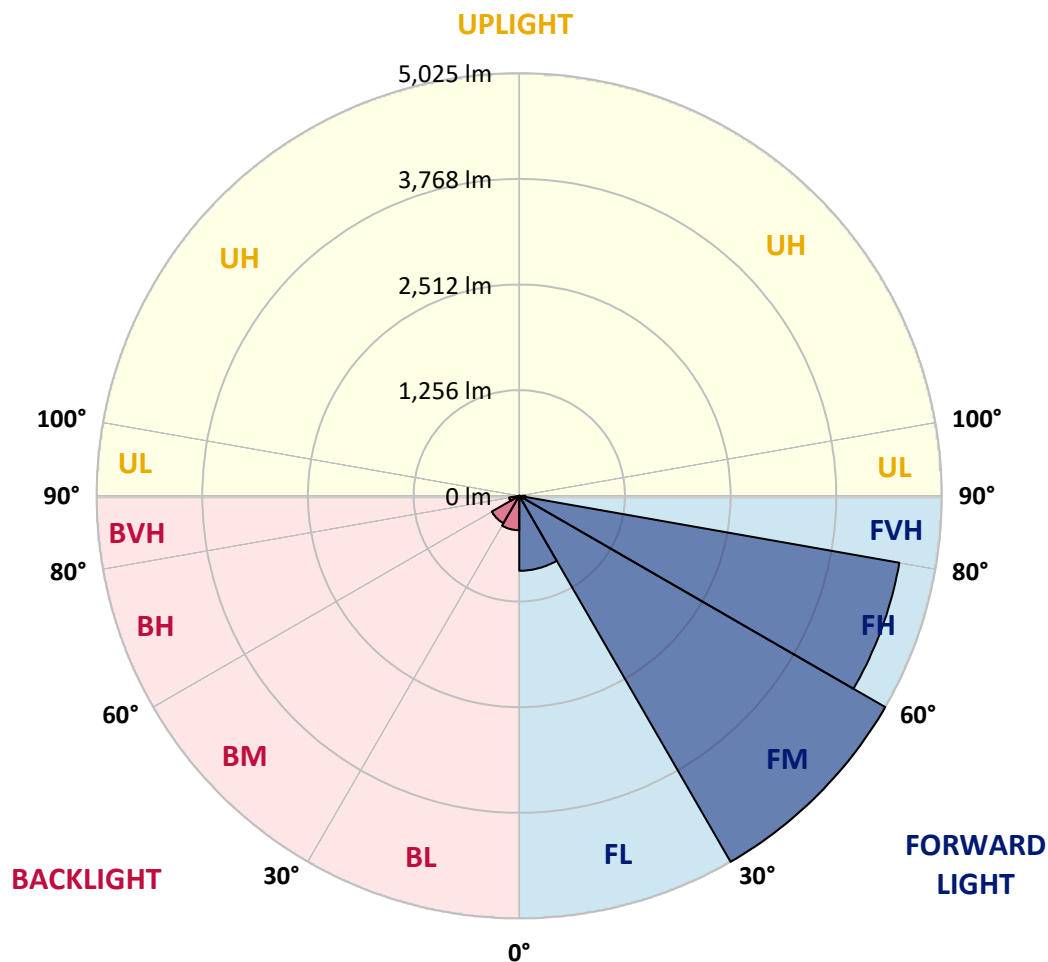
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	891.3	7.8			
FM	(30°-60°)	5024.5	43.7			
FH	(60°-80°)	4588.7	39.9			G2/5000
FVH	(80°-90°)	73.9	0.6			G1/100
BL	(0°-30°)	409.4	3.6	B1/500		
BM	(30°-60°)	377.1	3.3	B1/1000		
BH	(60°-80°)	121.9	1.1	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5
2.5°	2150.5	2153.1	2162.4	2166.5	2176.3	2192.8	2201.1	2201.6	2215.0	2220.1	2224.3
5°	1998.3	2013.8	2029.3	2045.8	2075.7	2115.4	2154.6	2158.2	2201.6	2233.6	2250.6
7.5°	1867.3	1881.2	1899.8	1926.1	1968.4	2030.8	2096.3	2104.1	2186.1	2258.8	2297.0
10°	1732.7	1744.0	1770.9	1809.5	1867.8	1951.4	2039.6	2052.5	2172.2	2292.9	2359.9
12.5°	1588.8	1595.5	1628.0	1683.7	1769.3	1875.6	1991.6	2008.7	2163.4	2332.1	2434.2
15°	1479.4	1482.5	1513.5	1571.2	1669.2	1807.5	1954.5	1975.1	2165.5	2379.0	2515.2
17.5°	1451.6	1453.1	1469.6	1509.3	1596.0	1746.6	1925.1	1950.4	2171.7	2424.9	2596.7
20°	1564.5	1553.7	1536.7	1530.5	1567.6	1710.0	1907.5	1935.9	2179.9	2465.7	2670.0
22.5°	1874.5	1842.6	1771.9	1677.5	1620.2	1712.6	1912.2	1940.6	2206.2	2515.7	2754.5
25°	2334.7	2290.3	2170.1	1984.4	1805.9	1786.8	1950.9	1979.8	2257.3	2575.6	2835.5
27.5°	2858.2	2814.4	2667.4	2402.2	2097.9	1933.9	2039.6	2066.4	2333.1	2628.7	2897.4
30°	3359.6	3347.2	3173.9	2872.7	2465.2	2172.2	2154.1	2176.8	2389.3	2660.7	2946.4
32.5°	3784.7	3765.1	3625.8	3332.8	2885.6	2458.5	2288.8	2295.5	2431.6	2701.9	3010.4
35°	4178.8	4154.5	4032.3	3755.3	3316.8	2808.2	2496.1	2486.3	2524.0	2785.0	3103.3
37.5°	4522.8	4545.0	4409.3	4145.7	3703.7	3171.9	2775.7	2746.3	2668.4	2920.1	3237.9
40°	4810.7	4810.7	4740.0	4520.2	4121.5	3547.9	3091.9	3053.2	2885.6	3128.5	3408.6
42.5°	4914.3	4936.5	4962.8	4838.5	4495.5	3938.9	3444.2	3404.0	3191.5	3424.1	3624.2
45°	4920.5	4955.6	5090.2	5089.7	4833.4	4327.3	3841.4	3822.3	3583.5	3803.8	3891.4
47.5°	4833.4	4877.2	5099.0	5224.9	5101.1	4688.9	4275.7	4252.0	4044.1	4269.0	4171.0
50°	4698.7	4747.2	5005.1	5278.0	5283.2	5003.6	4733.3	4697.7	4551.2	4800.9	4459.9
52.5°	4457.8	4551.7	4921.0	5290.4	5402.8	5275.4	5168.6	5153.2	5118.6	5313.1	4690.0
55°	3942.5	4046.7	4710.1	5294.5	5513.7	5516.3	5576.7	5580.8	5650.4	5791.8	4861.2
57.5°	3699.0	3757.8	4341.8	5314.1	5678.3	5789.7	5992.4	6024.4	6132.2	6246.2	5056.7
60°	3545.8	3615.5	4160.2	5287.3	5936.7	6148.2	6377.8	6388.6	6504.1	6715.1	5321.3
62.5°	3423.6	3492.2	4045.7	5184.1	6227.1	6579.4	6754.3	6755.3	6842.0	7273.8	5622.1
65°	3121.8	3179.6	3814.1	5068.1	6419.0	7006.0	7191.7	7185.0	7255.7	7862.8	5971.3
67.5°	2685.4	2729.8	3341.0	4628.1	6346.8	7393.9	7852.0	7829.8	7744.2	8372.0	6108.5
70°	2076.2	2092.2	2633.3	3856.9	5670.0	7543.0	8490.1	8478.7	8043.9	8280.7	5605.6
71°	1716.2	1768.8	2320.7	3404.0	5216.6	7405.3	8552.0	8558.7	7968.6	8032.0	5259.4
72.5°	996.6	1041.5	1682.1	2614.2	4428.9	6830.7	8231.1	8279.6	7616.8	7305.7	4492.4
75°	213.6	228.5	623.6	1265.3	2436.3	4787.4	6496.9	6669.7	6208.0	4970.0	2707.6
77.5°	148.6	160.4	267.2	574.1	805.2	2365.6	4035.9	4230.9	3708.8	1867.8	866.6
80°	117.6	131.0	208.4	283.7	217.7	762.9	1890.5	2009.7	1237.0	416.8	146.0
82.5°	65.5	77.9	162.5	153.2	83.6	144.9	529.2	598.4	247.6	84.1	34.6
85°	19.1	23.2	104.7	111.4	35.6	27.9	90.3	111.9	46.9	22.2	15.5
87.5°	0.0	0.0	50.6	42.8	10.3	4.1	8.3	9.3	9.3	9.3	10.3
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°	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5
2.5°	2224.3	2227.9	2215.0	2198.0	2179.9	2157.7	2134.5	2116.5	2115.9	2107.2	2098.4
5°	2251.6	2249.5	2214.0	2159.8	2095.8	2029.3	1965.8	1894.1	1870.4	1841.0	1831.2
7.5°	2302.2	2287.7	2212.4	2093.8	1953.5	1814.2	1670.3	1525.3	1463.4	1407.7	1397.9
10°	2365.6	2338.3	2202.6	1994.7	1737.3	1480.4	1263.3	1066.2	979.6	913.0	909.9
12.5°	2431.6	2389.9	2175.3	1845.1	1454.1	1093.0	842.9	648.9	576.7	530.3	534.4
15°	2500.8	2438.3	2116.5	1643.4	1131.7	741.8	517.9	403.9	375.0	363.1	366.2
17.5°	2571.4	2471.9	2034.4	1400.5	813.5	478.7	358.5	326.5	326.5	329.1	330.1
20°	2632.8	2489.9	1913.7	1128.1	551.4	348.7	313.6	309.0	311.6	315.7	316.2
22.5°	2693.7	2491.0	1756.4	852.2	385.8	305.4	298.7	296.6	298.2	302.8	303.3
25°	2743.2	2478.6	1559.4	606.1	308.0	287.8	284.7	283.7	284.7	290.4	290.4
27.5°	2763.3	2433.7	1319.0	426.1	276.0	268.2	267.2	268.2	269.8	273.9	274.4
30°	2765.4	2355.3	1056.9	308.5	250.2	241.9	244.0	247.6	246.1	245.0	246.1
32.5°	2770.5	2264.5	801.6	253.8	228.5	215.6	213.0	213.0	206.8	203.2	201.2
35°	2787.6	2157.7	581.3	228.0	206.3	191.4	181.6	170.2	158.4	152.2	150.6
37.5°	2814.4	2045.8	416.3	211.0	186.7	169.7	151.1	131.0	114.0	109.4	109.4
40°	2863.4	1930.2	308.0	197.6	171.3	150.1	122.3	95.9	80.5	77.9	77.9
42.5°	2940.8	1808.5	245.5	185.7	157.8	130.0	93.4	69.6	58.3	56.7	56.2
45°	3021.2	1674.4	214.6	174.4	143.4	106.8	69.1	51.6	44.9	43.3	43.3
47.5°	3101.7	1531.5	199.6	163.5	129.5	83.0	51.6	40.8	37.7	37.7	38.2
50°	3169.8	1382.4	188.8	151.7	111.4	62.9	40.8	34.6	33.5	35.6	36.1
52.5°	3186.8	1235.9	175.4	136.7	89.2	48.0	33.5	30.4	30.4	30.4	30.4
55°	3176.5	1122.5	157.8	118.1	66.0	38.2	28.9	26.8	26.3	26.3	26.3
57.5°	3211.6	1055.4	126.4	91.8	47.5	30.9	25.3	23.7	22.7	22.2	22.2
60°	3282.2	1011.5	90.3	66.0	35.6	25.8	21.7	20.1	18.6	17.5	17.5
62.5°	3376.1	973.4	67.1	49.0	27.3	20.6	18.1	16.5	14.4	13.4	13.4
65°	3448.3	905.3	51.1	36.6	20.6	16.5	13.9	13.4	10.3	9.3	8.8
67.5°	3338.0	755.7	41.3	26.8	15.5	12.9	10.8	10.3	6.2	5.2	5.2
70°	2862.9	526.1	33.0	19.6	11.3	10.3	8.8	6.7	4.6	4.1	4.1
71°	2596.2	439.5	29.9	16.5	9.8	9.8	8.3	5.7	4.1	3.6	3.6
72.5°	2156.7	312.1	25.3	12.9	8.8	10.3	8.8	5.2	4.1	3.6	3.1
75°	1251.9	130.5	17.5	8.8	6.7	12.4	11.3	4.6	3.1	2.6	2.6
77.5°	376.6	48.0	9.8	5.7	5.2	10.8	12.9	4.1	1.5	0.5	0.5
80°	68.6	20.6	6.2	3.6	3.6	6.7	9.8	2.1	0.0	0.0	0.0
82.5°	24.2	10.3	3.6	2.1	1.5	3.1	4.6	0.0	0.0	0.0	0.0
85°	13.9	7.2	2.1	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	9.3	2.1	0.0	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)