

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: P321508

Luminaire Tested: **GAN-SA4A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321508
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-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 12090 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

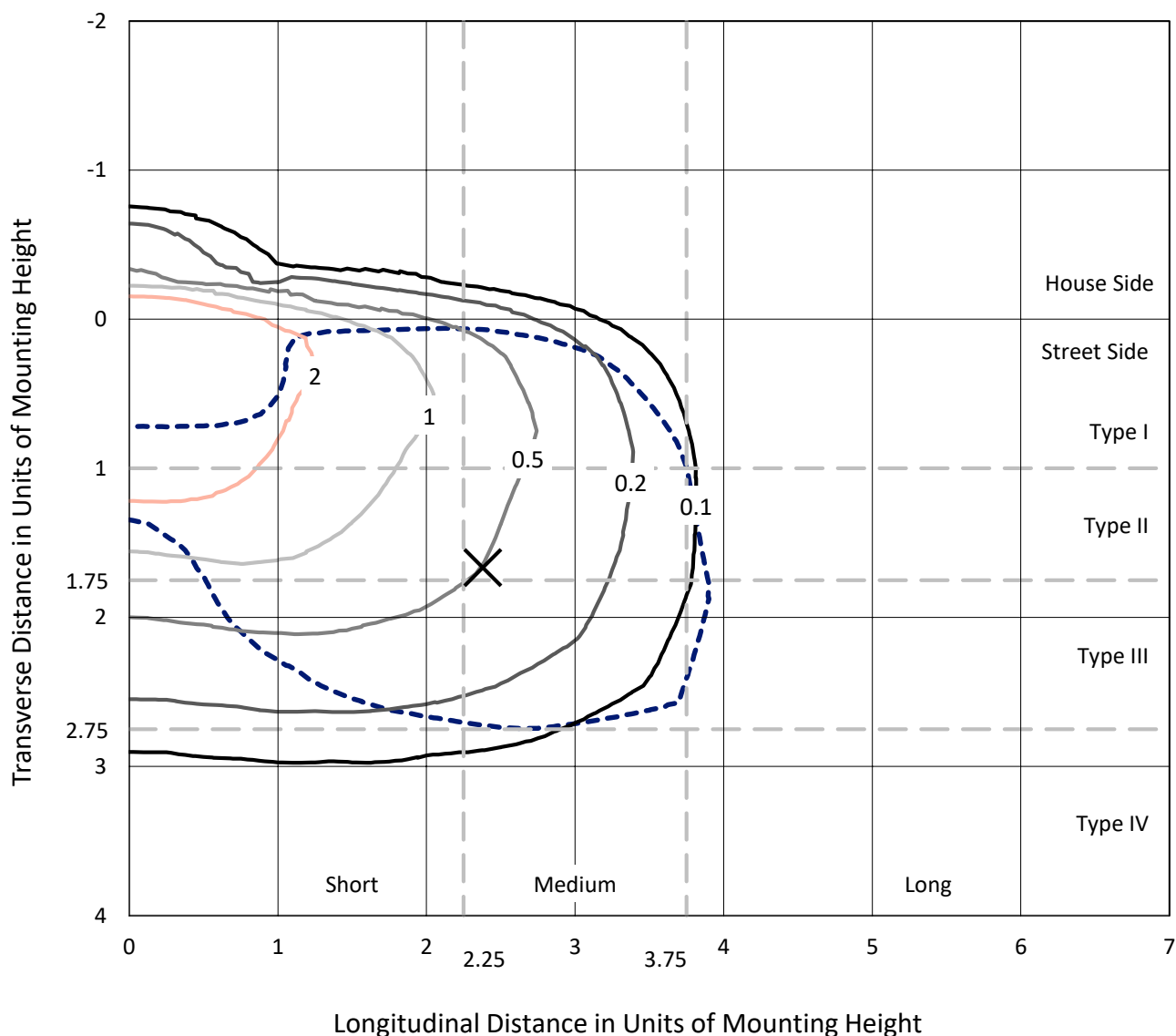
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

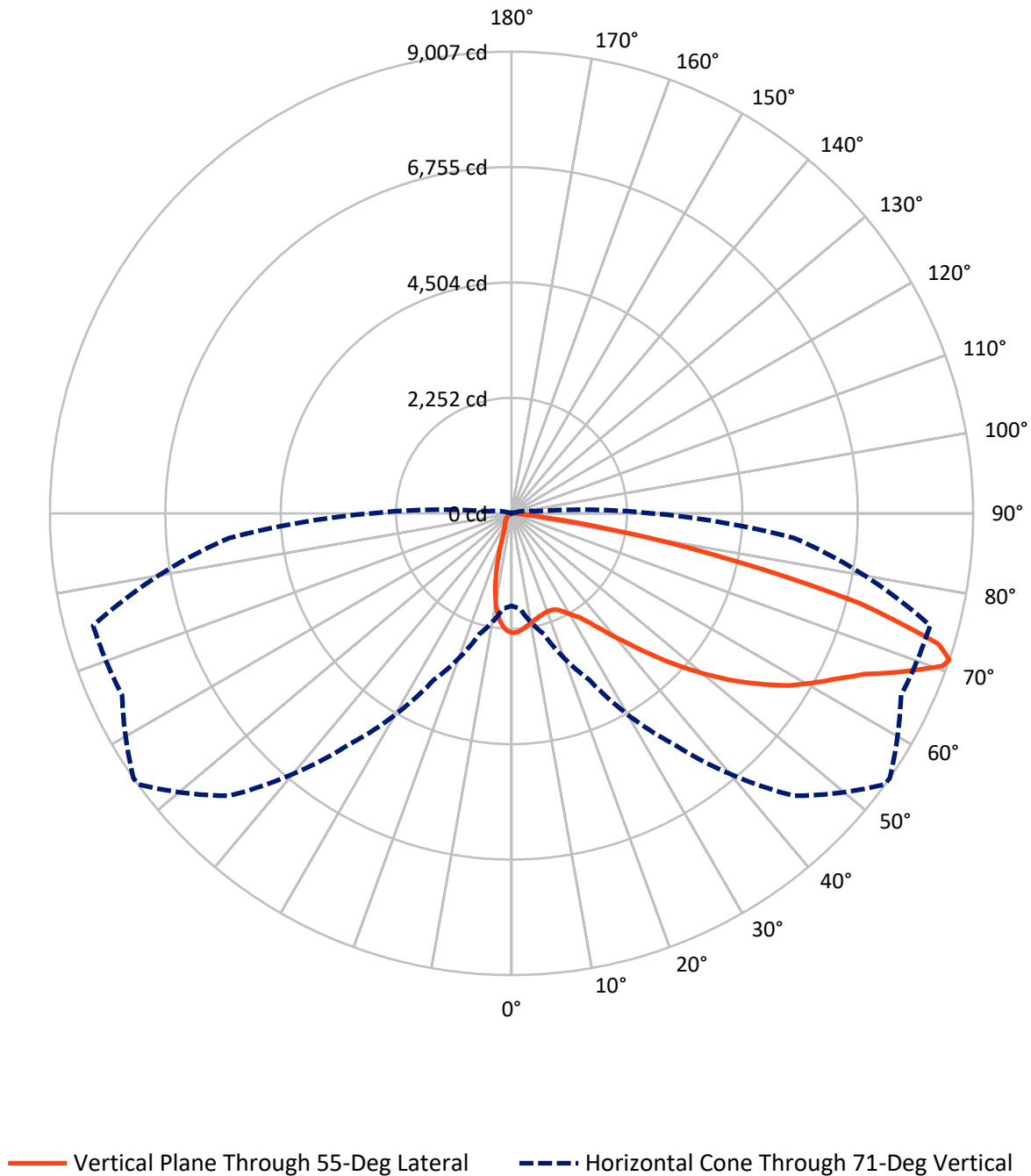
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	957.2	0.0	957.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	11132.8	0.0	11132.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	12090.0	0.0	12090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	1.6
10°-20°	448.8	3.7
20°-30°	721.2	6.0
30°-40°	1225.4	10.1
40°-50°	1902.0	15.7
50°-60°	2557.2	21.2
60°-70°	3128.3	25.9
70°-80°	1829.1	15.1
80°-90°	79.1	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°	12090.0	100.0
0°-180°	12090.0	100.0

Coefficient of Utilization



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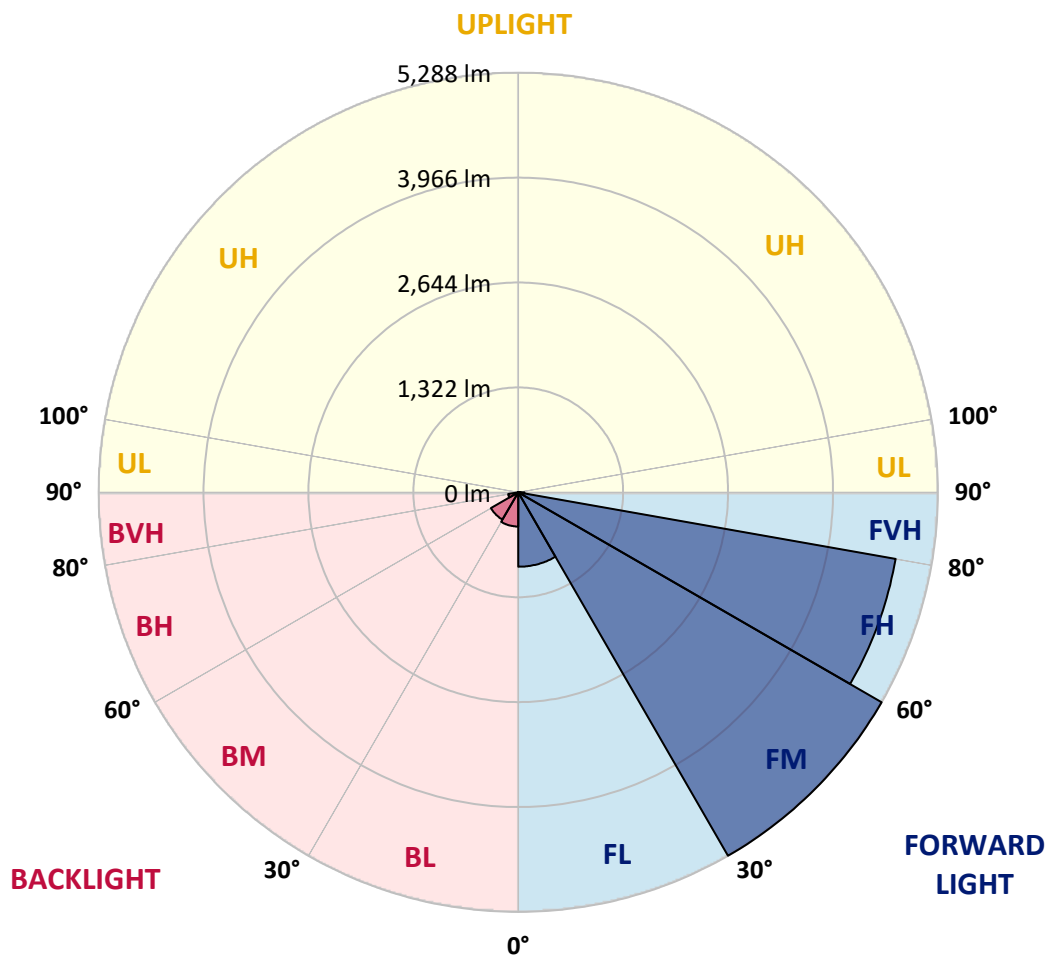
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.0	7.8			
FM	(30°-60°)	5287.8	43.7			
FH	(60°-80°)	4829.2	39.9			G2/5000
FVH	(80°-90°)	77.8	0.6			G1/100
BL	(0°-30°)	430.8	3.6	B1/500		
BM	(30°-60°)	396.9	3.3	B1/1000		
BH	(60°-80°)	128.2	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°	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6
2.5°	2263.2	2265.9	2275.7	2280.0	2290.3	2307.7	2316.4	2316.9	2331.1	2336.5	2340.8
5°	2103.1	2119.3	2135.6	2153.0	2184.5	2226.3	2267.5	2271.3	2316.9	2350.6	2368.5
7.5°	1965.2	1979.8	1999.4	2027.1	2071.6	2137.3	2206.2	2214.3	2300.7	2377.2	2417.4
10°	1823.5	1835.4	1863.7	1904.4	1965.7	2053.7	2146.5	2160.1	2286.0	2413.0	2483.6
12.5°	1672.0	1679.1	1713.3	1771.9	1862.0	1973.9	2096.0	2113.9	2276.8	2454.3	2561.8
15°	1556.9	1560.2	1592.8	1653.6	1756.7	1902.2	2056.9	2078.6	2278.9	2503.7	2647.0
17.5°	1527.6	1529.2	1546.6	1588.4	1679.6	1838.1	2026.0	2052.6	2285.5	2552.0	2732.8
20°	1646.5	1635.1	1617.2	1610.7	1649.8	1799.6	2007.5	2037.4	2294.1	2594.9	2809.9
22.5°	1972.8	1939.1	1864.7	1765.4	1705.1	1802.3	2012.4	2042.3	2321.8	2647.5	2898.9
25°	2457.0	2410.3	2283.8	2088.4	1900.6	1880.5	2053.1	2083.5	2375.6	2710.5	2984.1
27.5°	3008.0	2961.9	2807.1	2528.1	2207.8	2035.2	2146.5	2174.7	2455.4	2766.4	3049.3
30°	3535.7	3522.6	3340.2	3023.2	2594.3	2286.0	2267.0	2290.9	2514.5	2800.1	3100.8
32.5°	3983.0	3962.4	3815.8	3507.4	3036.8	2587.3	2408.7	2415.7	2559.1	2843.5	3168.2
35°	4397.7	4372.2	4243.6	3952.0	3490.6	2955.4	2626.9	2616.6	2656.2	2930.9	3265.9
37.5°	4759.8	4783.2	4640.4	4363.0	3897.8	3338.1	2921.1	2890.2	2808.2	3073.2	3407.6
40°	5062.7	5062.7	4988.4	4757.1	4337.5	3733.8	3253.9	3213.2	3036.8	3292.5	3587.2
42.5°	5171.9	5195.2	5222.9	5092.1	4731.1	4145.3	3624.7	3582.4	3358.7	3603.5	3814.2
45°	5178.4	5215.3	5357.0	5356.4	5086.6	4554.1	4042.7	4022.6	3771.3	4003.1	4095.4
47.5°	5086.6	5132.8	5366.2	5498.7	5368.4	4934.6	4499.8	4474.8	4256.1	4492.7	4389.6
50°	4944.9	4996.0	5267.4	5554.6	5560.0	5265.8	4981.3	4943.9	4789.7	5052.4	4693.6
52.5°	4691.4	4790.2	5178.9	5567.6	5686.0	5551.9	5439.5	5423.2	5386.8	5591.5	4935.7
55°	4149.1	4258.8	4956.9	5572.0	5802.7	5805.4	5868.9	5873.2	5946.5	6095.3	5115.9
57.5°	3892.9	3954.8	4569.3	5592.6	5975.8	6093.1	6306.4	6340.1	6453.6	6573.5	5321.7
60°	3731.6	3804.9	4378.2	5564.4	6247.8	6470.4	6712.0	6723.4	6845.0	7067.0	5600.2
62.5°	3603.0	3675.2	4257.7	5455.8	6553.5	6924.2	7108.3	7109.3	7200.5	7654.9	5916.7
65°	3285.4	3346.2	4013.9	5333.6	6755.4	7373.2	7568.6	7561.5	7635.9	8274.9	6284.2
67.5°	2826.1	2872.8	3516.1	4870.6	6679.4	7781.4	8263.5	8240.1	8150.0	8810.7	6428.6
70°	2185.0	2201.9	2771.3	4059.0	5967.2	7938.3	8935.0	8923.1	8465.4	8714.6	5899.3
71°	1806.1	1861.5	2442.3	3582.4	5490.0	7793.4	9000.1	9007.2	8386.2	8452.9	5535.0
72.5°	1048.8	1096.0	1770.3	2751.2	4661.0	7188.6	8662.5	8713.5	8015.9	7688.6	4727.8
75°	224.7	240.5	656.3	1331.6	2563.9	5038.3	6837.4	7019.2	6533.4	5230.5	2849.5
77.5°	156.3	168.8	281.2	604.2	847.4	2489.6	4247.4	4452.6	3903.2	1965.7	912.0
80°	123.8	137.9	219.3	298.6	229.1	802.9	1989.6	2115.0	1301.8	438.6	153.6
82.5°	68.9	82.0	171.0	161.2	87.9	152.5	557.0	629.7	260.6	88.5	36.4
85°	20.1	24.4	110.2	117.3	37.5	29.3	95.0	117.8	49.4	23.3	16.3
87.5°	0.0	0.0	53.2	45.1	10.9	4.3	8.7	9.8	9.8	9.8	10.9
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°	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6
2.5°	2340.8	2344.6	2331.1	2313.1	2294.1	2270.8	2246.4	2227.4	2226.8	2217.6	2208.4
5°	2369.6	2367.4	2330.0	2273.0	2205.7	2135.6	2068.9	1993.4	1968.4	1937.5	1927.2
7.5°	2422.8	2407.6	2328.3	2203.5	2055.8	1909.3	1757.8	1605.2	1540.1	1481.5	1471.2
10°	2489.6	2460.8	2318.0	2099.3	1828.4	1558.0	1329.5	1122.1	1030.9	960.9	957.6
12.5°	2559.1	2515.1	2289.3	1941.8	1530.3	1150.3	887.0	682.9	606.9	558.1	562.4
15°	2631.8	2566.1	2227.4	1729.6	1191.0	780.6	545.0	425.1	394.7	382.2	385.4
17.5°	2706.2	2601.4	2141.1	1473.9	856.1	503.8	377.3	343.6	343.6	346.3	347.4
20°	2770.8	2620.4	2014.0	1187.2	580.3	367.0	330.1	325.2	327.9	332.2	332.8
22.5°	2834.8	2621.5	1848.5	896.8	406.1	321.4	314.3	312.1	313.8	318.7	319.2
25°	2886.9	2608.5	1641.1	637.9	324.1	302.9	299.7	298.6	299.7	305.6	305.6
27.5°	2908.1	2561.2	1388.1	448.4	290.4	282.3	281.2	282.3	283.9	288.3	288.8
30°	2910.3	2478.7	1112.3	324.6	263.3	254.6	256.8	260.6	258.9	257.9	258.9
32.5°	2915.7	2383.2	843.6	267.1	240.5	226.9	224.2	224.2	217.7	213.9	211.7
35°	2933.6	2270.8	611.8	239.9	217.1	201.4	191.1	179.1	166.7	160.1	158.5
37.5°	2961.9	2153.0	438.1	222.0	196.5	178.6	159.1	137.9	120.0	115.1	115.1
40°	3013.4	2031.4	324.1	207.9	180.2	158.0	128.7	101.0	84.7	82.0	82.0
42.5°	3094.9	1903.3	258.4	195.4	166.1	136.8	98.3	73.3	61.3	59.7	59.2
45°	3179.6	1762.1	225.8	183.5	150.9	112.4	72.7	54.3	47.2	45.6	45.6
47.5°	3264.2	1611.8	210.1	172.1	136.3	87.4	54.3	42.9	39.6	39.6	40.2
50°	3335.9	1454.9	198.7	159.6	117.3	66.2	42.9	36.4	35.3	37.5	38.0
52.5°	3353.8	1300.7	184.6	143.9	93.9	50.5	35.3	32.0	32.0	32.0	32.0
55°	3343.0	1181.3	166.1	124.3	69.5	40.2	30.4	28.2	27.7	27.7	27.7
57.5°	3379.9	1110.7	133.0	96.6	49.9	32.6	26.6	25.0	23.9	23.3	23.3
60°	3454.2	1064.6	95.0	69.5	37.5	27.1	22.8	21.2	19.5	18.5	18.5
62.5°	3553.0	1024.4	70.6	51.6	28.8	21.7	19.0	17.4	15.2	14.1	14.1
65°	3629.0	952.7	53.7	38.5	21.7	17.4	14.7	14.1	10.9	9.8	9.2
67.5°	3512.9	795.3	43.4	28.2	16.3	13.6	11.4	10.9	6.5	5.4	5.4
70°	3012.9	553.7	34.7	20.6	11.9	10.9	9.2	7.1	4.9	4.3	4.3
71°	2732.2	462.5	31.5	17.4	10.3	10.3	8.7	6.0	4.3	3.8	3.8
72.5°	2269.7	328.4	26.6	13.6	9.2	10.9	9.2	5.4	4.3	3.8	3.3
75°	1317.5	137.3	18.5	9.2	7.1	13.0	11.9	4.9	3.3	2.7	2.7
77.5°	396.3	50.5	10.3	6.0	5.4	11.4	13.6	4.3	1.6	0.5	0.5
80°	72.2	21.7	6.5	3.8	3.8	7.1	10.3	2.2	0.0	0.0	0.0
82.5°	25.5	10.9	3.8	2.2	1.6	3.3	4.9	0.0	0.0	0.0	0.0
85°	14.7	7.6	2.2	1.1	0.0	0.5	1.1	0.0	0.0	0.0	0.0
87.5°	9.8	2.2	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)