

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: P318113

Luminaire Tested: **GAN-SA9A-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40883 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

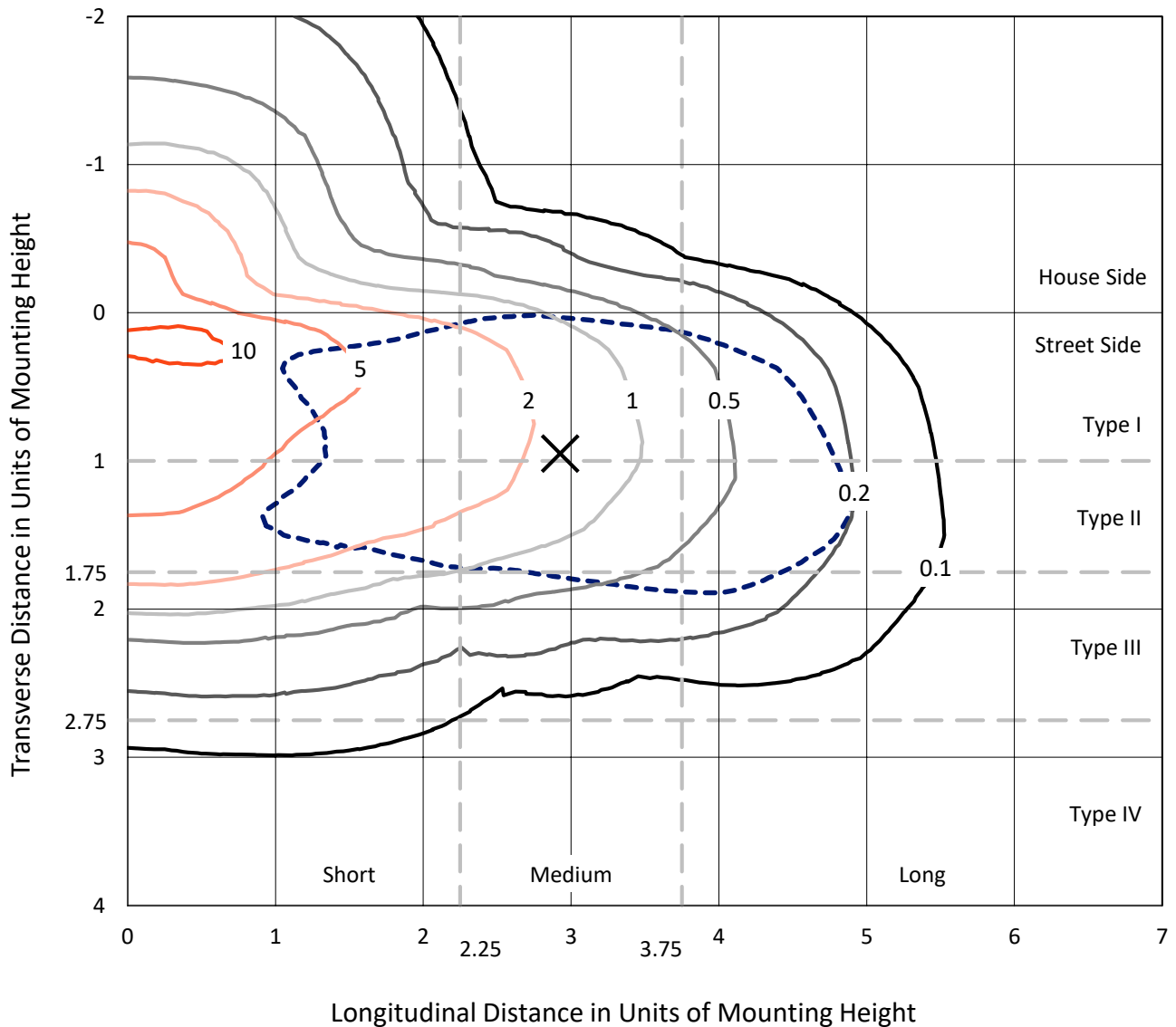
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

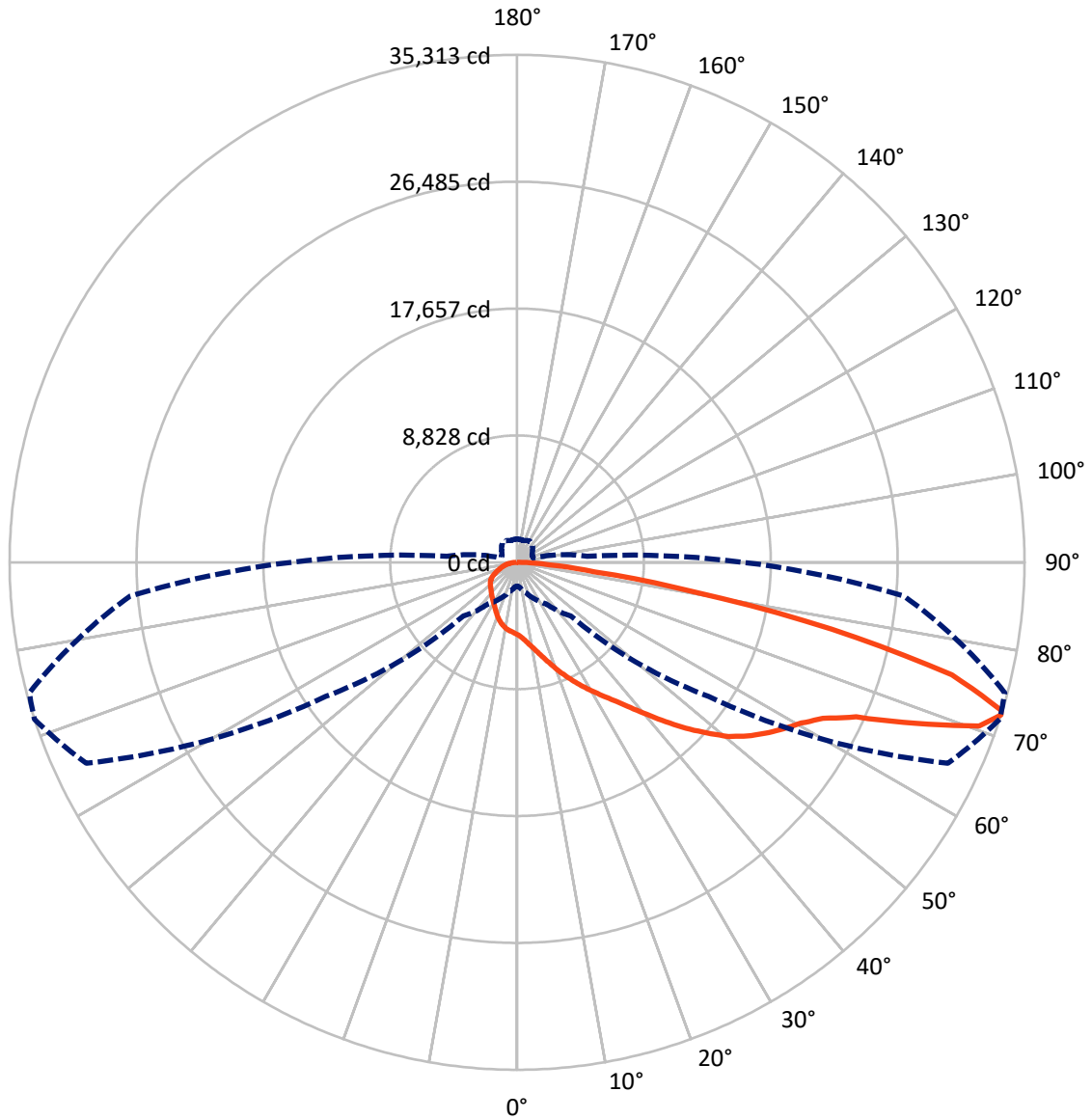
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7584.1	0.0	7584.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	33298.9	0.0	33298.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	40883.0	0.0	40883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	1.2
10°-20°	1628.6	4.0
20°-30°	2853.9	7.0
30°-40°	4231.4	10.4
40°-50°	6188.8	15.1
50°-60°	8515.8	20.8
60°-70°	9480.6	23.2
70°-80°	6424.0	15.7
80°-90°	1055.9	2.6
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°	40883.0	100.0
0°-180°	40883.0	100.0

Coefficient of Utilization

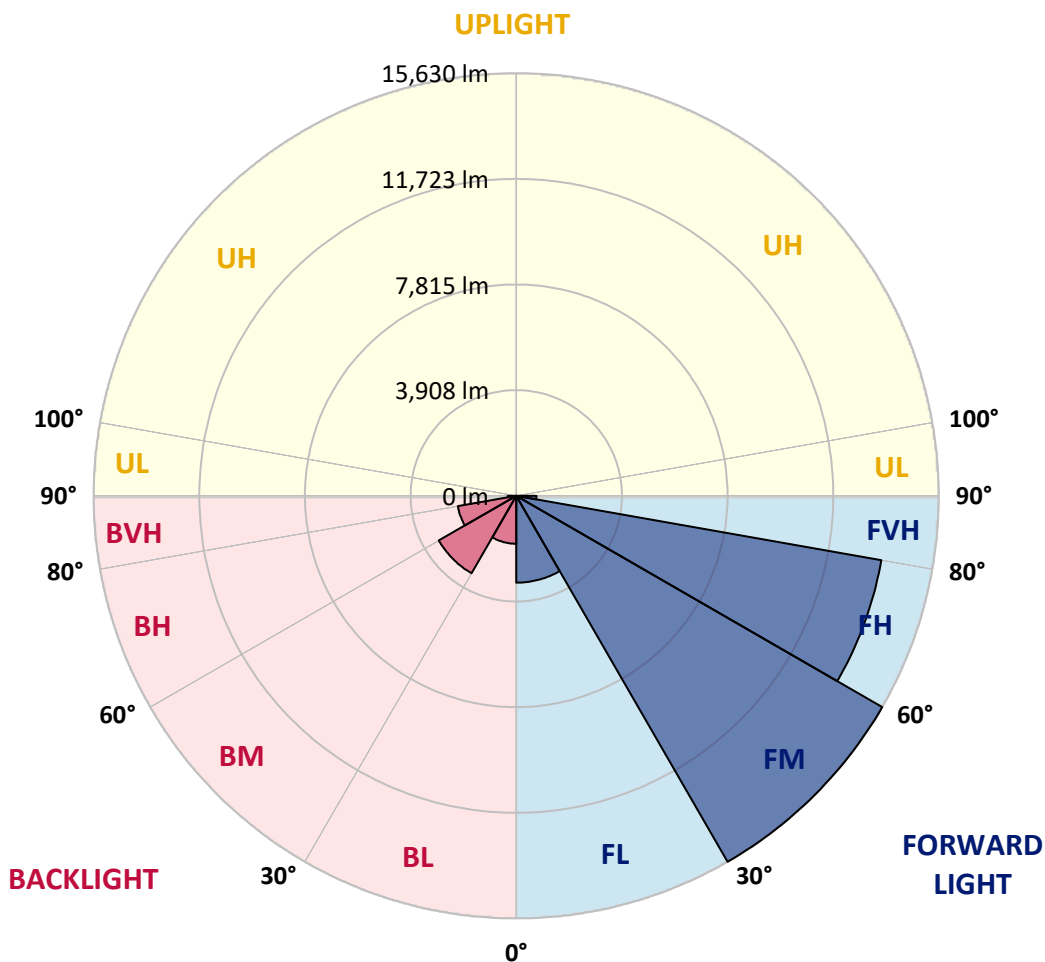


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3213.6	7.9			
FM (30°-60°)	15630.1	38.2			
FH (60°-80°)	13710.4	33.5			G5
FVH (80°-90°)	744.8	1.8			G4/750
BL (0°-30°)	1772.9	4.3	B3/2500		
BM (30°-60°)	3305.9	8.1	B3/5000		
BH (60°-80°)	2194.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	311.1	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7
2.5°	5556.2	5547.7	5518.1	5518.1	5461.8	5414.0	5323.9	5263.4	5191.6	5166.2	5081.8
5°	6093.9	6096.7	6060.1	6034.8	5951.7	5850.4	5696.9	5557.6	5418.2	5361.9	5188.7
7.5°	6545.8	6540.1	6530.3	6509.2	6431.7	6327.6	6120.6	5913.7	5708.2	5623.7	5325.3
10°	6835.7	6848.4	6856.9	6866.7	6834.3	6759.7	6564.1	6312.1	6043.2	5927.8	5488.6
12.5°	6982.1	7004.7	7044.1	7111.6	7165.1	7156.7	7014.5	6747.1	6427.5	6282.5	5692.7
15°	7068.0	7097.6	7159.5	7280.6	7431.2	7517.1	7479.1	7236.9	6880.8	6702.0	5941.9
17.5°	7121.5	7145.4	7241.2	7403.0	7626.9	7854.9	7954.9	7752.1	7393.2	7189.1	6227.6
20°	7158.1	7176.4	7296.1	7486.1	7776.1	8139.3	8418.0	8367.3	7957.7	7693.0	6526.0
22.5°	7239.7	7255.2	7369.3	7560.7	7881.7	8350.4	8864.2	8940.2	8553.1	8253.3	6845.6
25°	7467.8	7467.8	7563.5	7697.2	7998.5	8533.4	9241.5	9577.9	9161.2	8812.1	7141.2
27.5°	7902.8	7898.5	7933.7	7980.2	8208.2	8719.2	9577.9	10141.0	9791.9	9410.4	7428.4
30°	8418.0	8446.1	8450.4	8427.8	8534.8	8951.5	9889.0	10735.0	10426.8	10015.7	7722.6
32.5°	9081.0	9099.3	9078.2	9003.6	8988.1	9280.9	10194.5	11357.2	11113.7	10647.8	7991.5
35°	9922.8	9887.6	9821.5	9669.4	9524.4	9721.5	10543.6	11979.4	11885.1	11412.1	8361.7
37.5°	10825.1	10826.5	10744.9	10400.0	10200.1	10284.6	11025.0	12684.7	12818.4	12321.5	8836.1
40°	11548.7	11586.7	11637.4	11184.1	10925.1	11041.9	11637.4	13502.6	13922.1	13399.8	9454.0
42.5°	12054.0	12097.7	12241.3	11956.9	11688.0	11904.8	12358.1	14375.3	15160.8	14644.2	10177.6
45°	12589.0	12612.9	12714.3	12591.8	12420.0	12908.5	13170.3	15279.1	16471.4	15970.2	10987.0
47.5°	13152.0	13177.4	13281.6	13199.9	13109.8	13846.0	14017.8	16130.7	17727.0	17427.2	11851.3
50°	13847.4	13864.3	13962.9	13815.1	13843.2	14552.7	14775.1	16912.0	19043.2	18736.4	12718.5
52.5°	14796.2	14800.5	14937.0	14803.3	14670.9	15070.7	15426.9	17648.2	20075.1	19930.1	13585.6
55°	15539.5	15584.5	16032.2	16004.0	15928.0	15540.9	15971.6	18349.2	20995.7	21064.7	14506.2
57.5°	15065.1	15241.1	16147.6	16786.7	17408.9	16710.7	16707.9	19139.0	21851.6	22178.2	15518.4
60°	13194.3	13433.6	14769.5	16187.0	18133.9	18746.2	18236.6	20103.2	22715.9	23281.8	16786.7
62.5°	9423.1	9817.2	11627.5	13891.1	17140.0	20094.8	21347.6	21633.4	23891.3	24560.0	18435.1
65°	4763.6	5062.1	6579.5	9306.2	13694.0	19213.6	24728.9	24983.7	25933.9	26527.9	20973.2
67.5°	2894.2	3006.8	3747.3	5176.1	8395.5	14966.6	25832.5	30568.0	29886.7	30202.0	24592.3
70°	2132.7	2215.7	2677.4	3437.6	4828.4	8782.6	22445.6	34553.2	34105.5	34070.3	27267.0
72°	1661.1	1721.6	2129.8	2777.4	3530.5	5269.0	16268.7	33082.1	35313.3	35135.9	27022.0
72.5°	1575.2	1628.7	2000.3	2614.1	3336.2	4776.3	14627.3	32089.7	35226.0	35145.8	26705.3
75°	1240.2	1278.2	1480.9	2021.4	2611.3	2709.8	8015.4	24868.2	31249.3	32548.6	24019.4
77.5°	1026.2	1031.8	1138.8	1471.0	2035.5	1915.9	3937.3	17254.1	22376.6	23805.4	17014.7
80°	836.2	843.2	893.9	1031.8	1540.0	1417.5	1869.4	9921.4	12528.4	12543.9	8091.4
82.5°	665.8	667.2	723.6	754.5	1106.4	1013.5	1071.3	4658.0	5474.5	5266.2	2908.3
85°	468.8	458.9	706.7	619.4	723.6	650.4	591.2	1844.1	2263.6	2165.0	910.8
87.5°	156.3	161.9	313.9	401.2	422.3	368.8	263.2	706.7	854.5	847.4	288.6
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°	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7	5029.7
2.5°	5055.0	5010.0	4943.8	4870.6	4812.9	4753.8	4710.1	4687.6	4662.3	4641.2	4666.5
5°	5108.5	5024.0	4883.3	4745.3	4644.0	4553.9	4489.1	4455.3	4424.4	4403.3	4406.1
7.5°	5195.8	5059.2	4822.7	4621.4	4480.7	4383.5	4317.4	4294.9	4275.2	4269.5	4276.6
10°	5288.7	5087.4	4742.5	4475.0	4314.6	4234.3	4204.8	4220.3	4234.3	4247.0	4261.1
12.5°	5394.3	5112.7	4625.7	4303.3	4166.8	4135.8	4165.4	4232.9	4282.2	4311.8	4330.1
15°	5532.2	5135.3	4490.5	4131.6	4040.1	4075.3	4175.2	4292.0	4377.9	4432.8	4441.3
17.5°	5658.9	5133.8	4317.4	3958.4	3937.3	4040.1	4190.7	4355.4	4470.8	4548.2	4563.7
20°	5789.8	5095.8	4116.1	3789.5	3833.1	4002.1	4197.7	4396.2	4535.6	4625.7	4646.8
22.5°	5912.3	5029.7	3895.1	3636.1	3745.9	3951.4	4171.0	4372.3	4511.6	4584.8	4607.4
25°	5995.4	4914.2	3671.3	3506.6	3668.4	3889.4	4083.7	4245.6	4349.8	4386.4	4392.0
27.5°	6037.6	4763.6	3460.1	3393.9	3588.2	3788.1	3921.8	4002.1	4031.6	4028.8	4023.2
30°	6043.2	4565.1	3278.5	3302.4	3495.3	3638.9	3702.2	3686.7	3648.7	3584.0	3589.6
32.5°	6024.9	4341.3	3126.5	3215.2	3377.0	3457.3	3460.1	3385.5	3284.1	3181.4	3153.2
35°	6030.5	4121.7	2992.7	3116.6	3233.5	3268.7	3236.3	3126.5	2988.5	2856.2	2828.0
37.5°	6092.5	3930.3	2877.3	3002.6	3074.4	3082.8	3036.4	2921.0	2819.6	2690.1	2678.8
40°	6240.3	3793.7	2767.5	2874.5	2915.3	2919.5	2853.4	2771.7	2780.2	2711.2	2709.8
42.5°	6506.3	3734.6	2670.4	2740.8	2766.1	2774.6	2723.9	2671.8	2745.0	2699.9	2684.5
45°	6849.8	3748.7	2588.7	2609.9	2656.3	2695.7	2664.8	2601.4	2629.6	2433.9	2369.1
47.5°	7246.8	3838.8	2524.0	2497.2	2577.5	2652.1	2604.2	2508.5	2408.6	2214.3	2177.7
50°	7711.3	3978.1	2464.9	2386.0	2491.6	2593.0	2545.1	2408.6	2257.9	2163.6	2150.9
52.5°	8195.6	4148.5	2405.7	2263.6	2383.2	2547.9	2524.0	2386.0	2200.2	2107.3	2090.4
55°	8744.6	4320.2	2331.1	2121.4	2266.4	2526.8	2514.1	2304.4	2156.6	2104.5	2091.8
57.5°	9427.3	4515.9	2232.6	1973.6	2156.6	2450.8	2411.4	2255.1	2111.5	2072.1	2067.9
60°	10317.0	4804.4	2090.4	1815.9	2022.9	2333.9	2325.5	2183.3	2039.7	2011.6	2006.0
62.5°	11651.4	5281.7	1894.8	1658.3	1873.6	2135.5	2212.9	2086.2	1963.7	1962.3	1965.1
65°	13720.8	5999.6	1682.2	1520.3	1723.0	1968.0	2082.0	1986.3	1886.3	1914.5	1918.7
67.5°	16119.5	6595.0	1473.9	1385.2	1569.6	1808.9	1963.7	1886.3	1783.5	1856.7	1858.2
70°	16917.6	6062.9	1290.9	1251.4	1410.5	1655.4	1835.6	1776.5	1672.3	1745.5	1738.5
72°	15743.6	4894.5	1172.6	1150.1	1290.9	1528.8	1721.6	1673.7	1571.0	1620.3	1602.0
72.5°	15373.4	4666.5	1143.0	1124.7	1258.5	1496.4	1692.0	1648.4	1545.6	1587.9	1571.0
75°	13713.7	4052.7	982.6	986.8	1098.0	1338.7	1525.9	1511.9	1406.3	1410.5	1404.9
77.5°	9946.7	2971.6	827.7	855.9	934.7	1176.8	1358.4	1350.0	1234.5	1213.4	1209.2
80°	4615.8	1516.1	674.3	687.0	768.6	984.0	1158.5	1147.3	1054.4	1027.6	1012.1
82.5°	1580.8	720.7	506.8	515.2	595.5	792.5	1005.1	998.1	920.6	868.5	836.2
85°	564.5	359.0	354.7	346.3	425.1	623.6	875.6	837.6	723.6	616.6	613.8
87.5°	183.0	153.4	183.0	181.6	247.8	422.3	636.3	542.0	525.1	436.4	427.9
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)