

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: P318890

Luminaire Tested: **GAN-SA6C-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33818 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

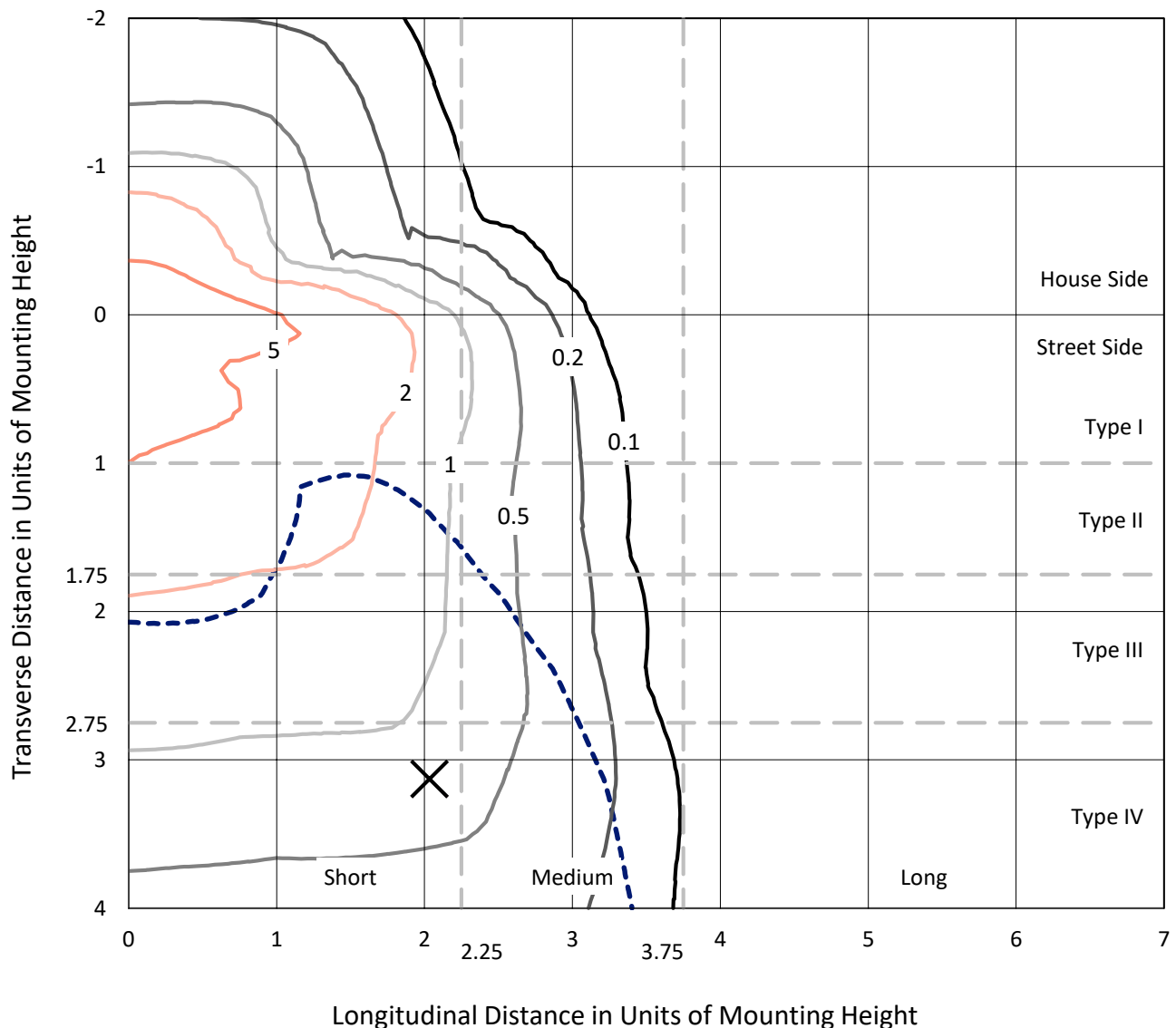
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318890
 CATALOG NUMBER: GAN-SA6C-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

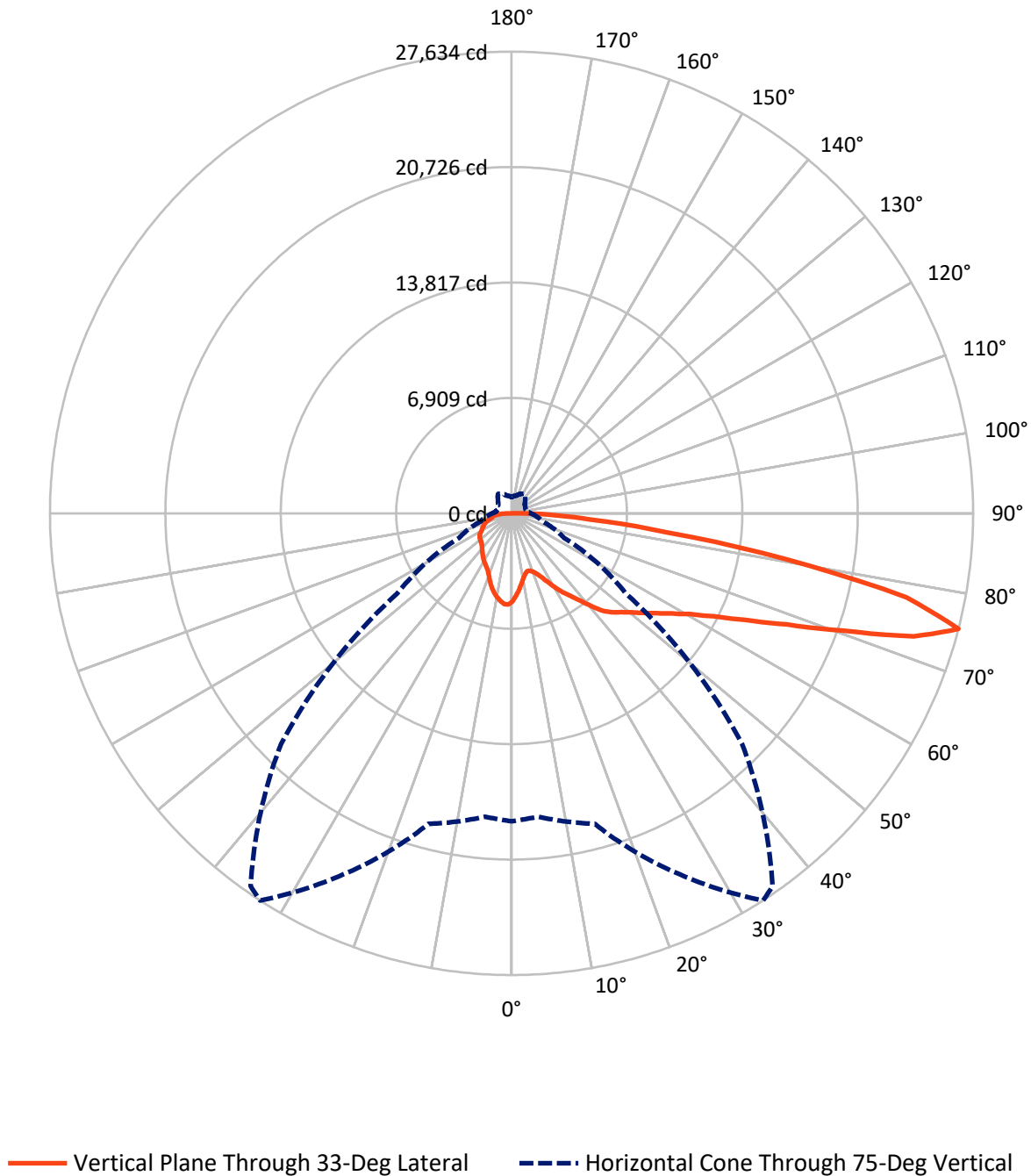
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P318890
CATALOG NUMBER: GAN-SA6C-830-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7261.6	0.0	7261.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	26556.4	0.0	26556.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	33818.0	0.0	33818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	1.4
10°-20°	1294.7	3.8
20°-30°	2114.5	6.3
30°-40°	3149.0	9.3
40°-50°	4516.5	13.4
50°-60°	6200.5	18.3
60°-70°	7762.8	23.0
70°-80°	7022.6	20.8
80°-90°	1279.2	3.8
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°	33818.0	100.0
0°-180°	33818.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318890

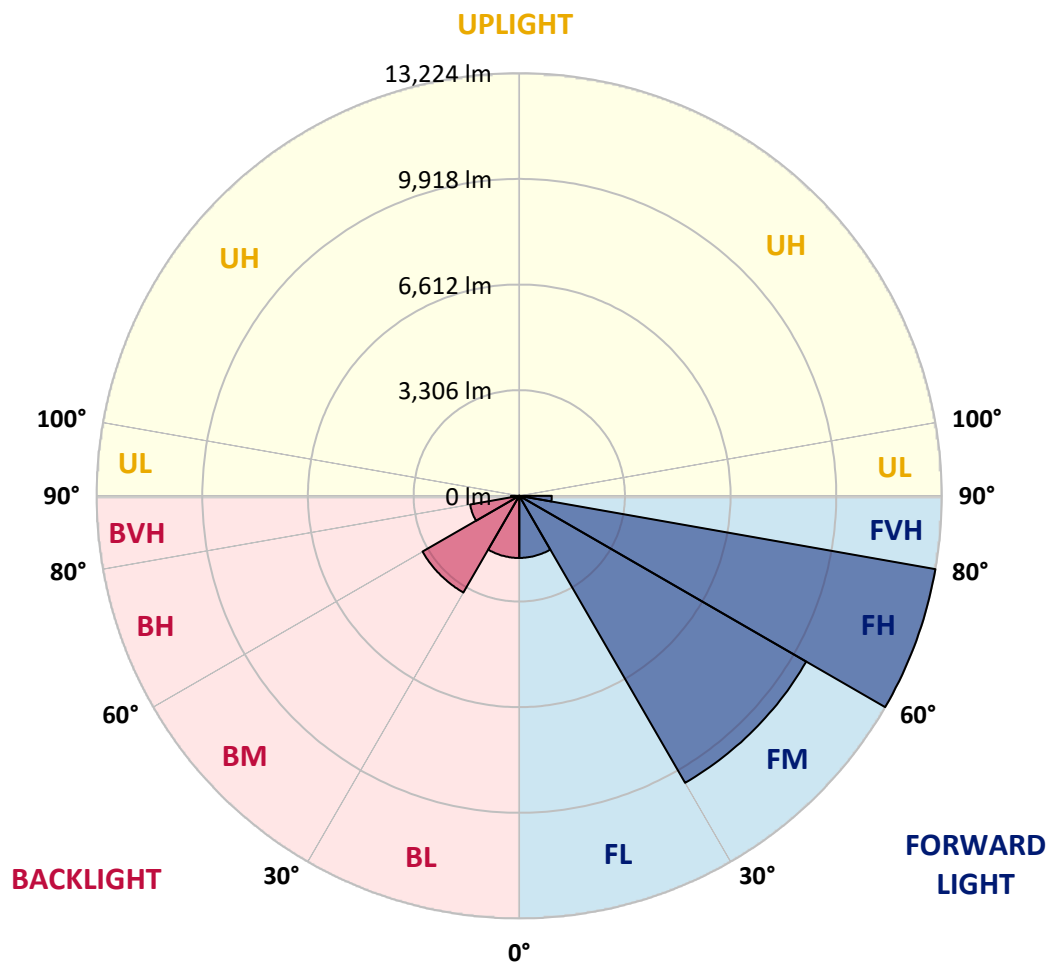
CATALOG NUMBER: GAN-SA6C-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1942.3	5.7			
FM	(30°-60°)	10371.3	30.7			
FH	(60°-80°)	13224.0	39.1			G5
FVH	(80°-90°)	1018.8	3.0			G5
BL	(0°-30°)	1945.0	5.8	B3/2500		
BM	(30°-60°)	3494.8	10.3	B3/5000		
BH	(60°-80°)	1561.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	260.4	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 IV Short





REPORT NUMBER: P318890

CATALOG NUMBER: GAN-SA6C-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9
2.5°	4908.6	4889.9	4925.0	4929.7	4960.0	4971.7	5013.8	5079.2	5132.9	5194.8	5250.9
5°	4463.6	4450.7	4499.8	4534.8	4601.4	4629.4	4728.7	4867.7	4991.6	5131.7	5259.1
7.5°	4040.7	4033.7	4088.6	4168.0	4245.1	4283.7	4455.4	4657.5	4864.2	5090.9	5285.9
10°	3684.4	3682.1	3734.6	3812.9	3926.2	3969.4	4191.4	4457.7	4747.4	5059.3	5331.5
12.5°	3484.6	3492.8	3517.3	3582.8	3687.9	3731.1	3977.6	4290.7	4649.3	5048.8	5398.1
15°	3533.7	3546.5	3504.5	3502.2	3576.9	3610.8	3842.1	4171.5	4579.2	5066.3	5495.0
17.5°	3742.8	3745.1	3634.2	3564.1	3609.6	3627.1	3800.0	4103.8	4538.3	5106.0	5616.5
20°	4037.2	4031.3	3835.1	3718.3	3742.8	3747.5	3859.6	4104.9	4534.8	5175.0	5774.2
22.5°	4427.3	4384.1	4120.1	3961.2	3955.4	3948.4	4012.6	4191.4	4586.2	5287.1	5962.3
25°	4936.7	4895.8	4532.5	4315.2	4268.5	4250.9	4260.3	4375.9	4687.8	5407.4	6172.6
27.5°	5503.2	5432.0	5081.5	4774.3	4677.3	4652.8	4596.7	4636.4	4798.8	5523.1	6422.6
30°	5977.5	5938.9	5632.9	5268.4	5153.9	5118.9	4971.7	4928.5	4958.9	5680.8	6738.0
32.5°	6242.7	6217.0	6031.2	5736.9	5630.6	5581.5	5373.6	5287.1	5215.9	5929.6	7165.5
35°	6563.9	6547.6	6435.4	6221.6	6063.9	6012.5	5851.3	5761.4	5578.0	6271.9	7718.1
37.5°	6972.8	6955.2	6957.6	6784.7	6596.6	6548.7	6442.4	6347.8	6047.6	6721.6	8318.5
40°	7435.4	7401.5	7388.6	7380.5	7261.3	7234.4	7178.4	7049.9	6636.3	7259.0	8910.8
42.5°	8131.6	8011.3	7754.3	7851.2	7969.2	7955.2	8000.8	7816.2	7290.5	7894.5	9489.0
45°	8803.3	8605.9	8162.0	8183.0	8441.2	8519.4	8860.5	8729.7	7999.6	8590.7	10087.1
47.5°	9109.3	8959.8	8582.5	8583.7	8839.5	9001.9	9749.5	9656.0	8744.9	9381.5	10817.2
50°	9451.6	9302.1	8963.3	9090.7	9313.8	9486.7	10608.1	10560.2	9454.0	10247.1	11692.2
52.5°	9825.4	9571.9	9357.0	9584.8	9897.9	10098.8	11467.9	11337.0	10104.6	11118.6	12697.9
55°	9830.1	9761.2	9924.7	10091.8	10560.2	10806.7	12368.5	12022.7	10635.0	11974.9	13516.8
57.5°	10389.7	10277.5	10624.5	10701.6	11313.7	11591.7	13264.5	12619.7	11174.7	12631.4	13958.4
60°	11130.3	11034.5	11318.3	11521.6	12245.9	12617.3	14221.2	13233.0	11598.7	13126.7	13937.4
62.5°	12409.4	12300.8	12297.3	12582.3	13557.7	13989.9	15294.8	13834.6	11766.9	13224.8	13342.8
65°	14282.0	14109.1	13783.2	13918.7	15369.5	15800.6	16494.5	14270.3	11545.0	12699.1	11811.3
67.5°	16104.3	16098.5	15697.8	15975.8	17761.9	18107.7	17861.2	14313.5	10852.2	10868.6	9094.2
70°	17920.8	17944.2	17876.4	18843.7	20994.2	21354.0	19316.8	13732.9	9295.1	7848.9	5448.3
72.5°	19360.0	19354.1	19695.2	22189.3	25189.1	25108.5	20543.3	11973.7	6673.7	4236.9	2603.8
75°	18427.8	18224.5	19240.8	23845.7	27634.1	27240.4	19500.2	8352.4	3463.6	1928.6	1401.8
77.5°	12019.2	12212.0	13703.7	19698.8	24171.7	23692.7	14306.5	3897.0	1631.9	1265.1	1016.3
80°	4352.6	4555.8	6416.7	11158.3	16653.3	16575.1	7045.2	1601.6	1103.9	955.6	740.6
82.5°	1497.6	1572.3	2531.4	4955.4	9402.6	9753.0	2650.6	910.0	802.5	677.5	507.0
85°	587.6	672.9	1157.7	2384.2	4742.7	4777.8	1073.5	544.4	558.4	443.9	278.0
87.5°	223.1	271.0	553.7	1107.4	2165.8	1989.4	384.3	259.3	317.7	264.0	132.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318890

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9	5285.9
2.5°	5294.1	5318.7	5370.1	5405.1	5442.5	5453.0	5457.7	5467.0	5476.4	5472.8	5474.0
5°	5326.8	5374.7	5457.7	5492.7	5509.1	5490.4	5454.2	5425.0	5403.9	5392.2	5388.7
7.5°	5380.6	5448.3	5537.1	5531.3	5493.9	5410.9	5317.5	5247.4	5189.0	5168.0	5156.3
10°	5451.8	5531.3	5593.2	5526.6	5417.9	5274.3	5134.1	5025.4	4937.8	4904.0	4898.1
12.5°	5542.9	5623.5	5635.2	5493.9	5314.0	5117.7	4927.3	4783.6	4652.8	4610.7	4601.4
15°	5660.9	5736.9	5664.4	5436.6	5185.5	4921.5	4675.0	4479.9	4342.1	4290.7	4272.0
17.5°	5784.7	5857.2	5670.3	5342.0	5017.3	4689.0	4379.4	4179.7	4022.0	3962.4	3955.4
20°	5933.1	5965.8	5645.7	5206.5	4786.0	4387.6	4061.7	3873.6	3789.5	3747.5	3742.8
22.5°	6116.5	6081.5	5589.7	5023.1	4492.8	4039.5	3774.3	3686.7	3665.7	3656.4	3659.9
25°	6310.4	6203.0	5506.7	4783.6	4122.5	3691.4	3564.1	3588.6	3616.6	3613.1	3613.1
27.5°	6524.2	6326.8	5379.4	4465.9	3712.4	3406.4	3421.6	3511.5	3553.6	3552.4	3551.2
30°	6798.7	6467.0	5217.0	4083.9	3329.3	3205.4	3297.7	3407.5	3464.8	3462.4	3463.6
32.5°	7136.3	6621.2	4996.2	3657.5	3052.4	3057.1	3163.4	3272.0	3338.6	3332.8	3333.9
35°	7531.2	6794.0	4697.2	3237.0	2869.0	2939.1	3023.2	3099.1	3162.2	3154.0	3145.9
37.5°	7961.0	6963.4	4300.0	2860.8	2719.5	2829.3	2899.4	2912.2	2941.4	2920.4	2905.2
40°	8369.9	7093.1	3788.4	2552.4	2568.8	2735.8	2781.4	2730.0	2677.4	2670.4	2649.4
42.5°	8726.2	7136.3	3270.9	2306.0	2409.9	2637.7	2665.8	2558.3	2463.7	2419.3	2400.6
45°	9102.3	7151.5	2788.4	2099.2	2256.9	2550.1	2580.5	2436.8	2303.6	2207.8	2176.3
47.5°	9594.1	7261.3	2413.4	1946.2	2140.1	2491.7	2534.9	2339.8	2166.9	2030.3	2001.1
50°	10237.8	7478.6	2108.5	1829.3	2064.1	2453.1	2502.2	2245.2	2054.8	1890.1	1860.9
52.5°	10952.7	7678.3	1862.1	1734.7	1990.6	2385.4	2460.2	2177.5	1949.7	1760.4	1728.9
55°	11452.7	7525.3	1663.5	1636.6	1894.8	2288.4	2401.7	2120.2	1799.0	1634.3	1606.2
57.5°	11548.5	7002.0	1512.8	1535.0	1779.1	2166.9	2311.8	1992.9	1717.2	1579.4	1550.2
60°	11286.8	6273.0	1400.6	1441.5	1655.3	2013.9	2143.6	1902.9	1638.9	1520.9	1496.4
62.5°	10629.1	5526.6	1317.7	1357.4	1539.6	1858.5	2038.4	1808.3	1559.5	1454.4	1429.8
65°	9300.9	4639.9	1238.3	1282.6	1432.2	1724.2	1943.8	1720.7	1481.2	1400.6	1377.3
67.5°	7020.7	3475.3	1163.5	1203.2	1336.4	1607.4	1841.0	1634.3	1405.3	1353.9	1325.9
70°	4134.1	2176.3	1078.2	1120.3	1235.9	1485.9	1731.2	1539.6	1310.7	1287.3	1251.1
72.5°	1924.0	1309.5	981.3	1022.1	1109.8	1323.5	1589.9	1415.8	1198.5	1147.1	1098.1
75°	1148.3	957.9	866.8	903.0	964.9	1150.6	1412.3	1289.7	1092.2	1024.5	973.1
77.5°	858.6	732.4	740.6	779.2	829.4	1007.0	1251.1	1190.4	1010.5	957.9	922.8
80°	618.0	556.0	603.9	646.0	698.6	915.8	1198.5	1100.4	913.5	843.4	810.7
82.5°	412.4	399.5	454.4	497.6	549.0	801.4	1126.1	963.7	780.3	691.6	619.1
85°	227.8	240.6	306.1	324.7	369.1	564.2	922.8	774.5	587.6	473.1	452.1
87.5°	94.6	111.0	164.7	158.9	196.3	336.4	607.4	467.3	373.8	279.2	217.3
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)