

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: P318880

Luminaire Tested: **GAN-SA6B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318880
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-SA6B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 27323 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

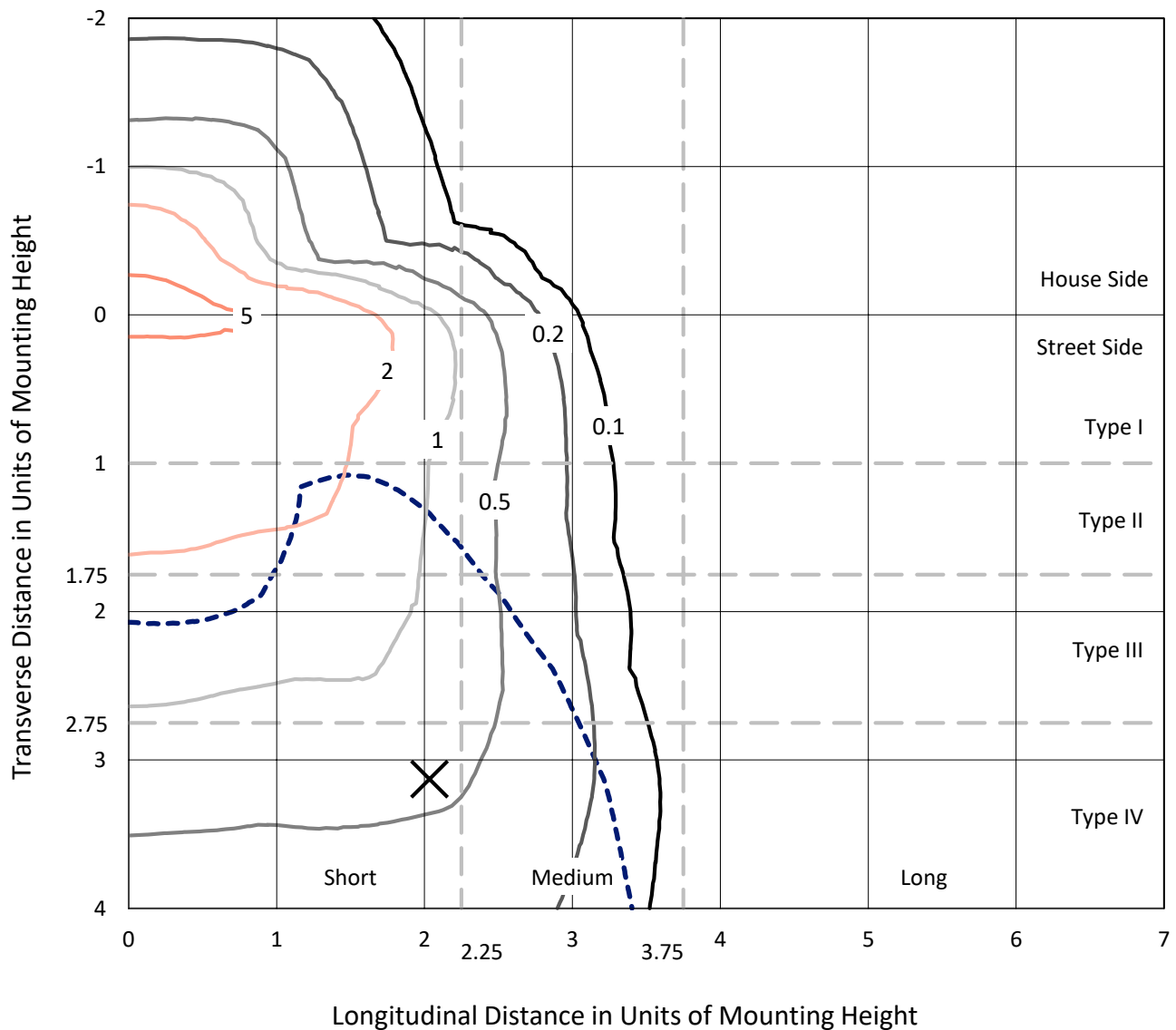
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

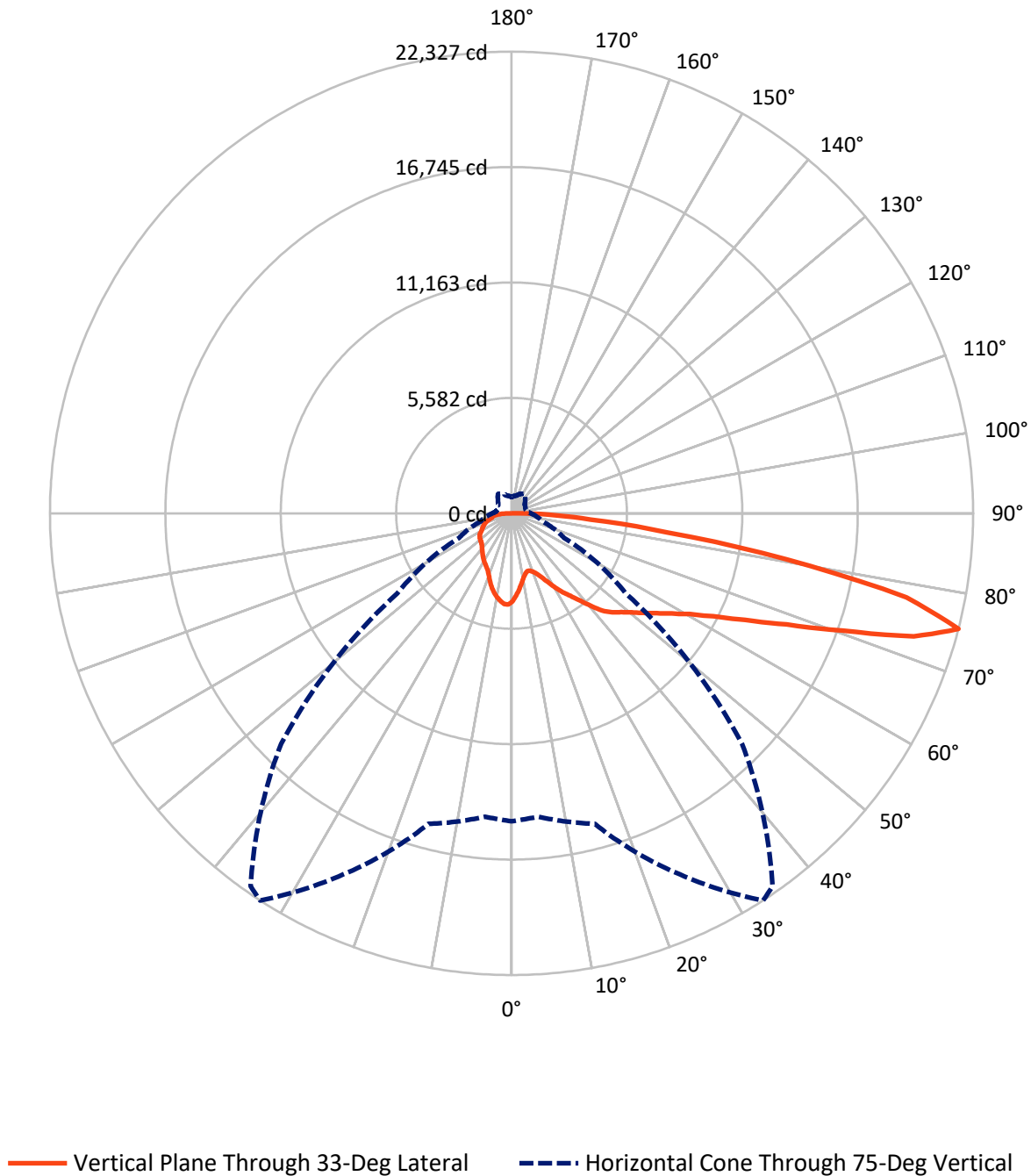
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	5867.0	0.0	5867.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	21456.0	0.0	21456.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	27323.0	0.0	27323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	1.4
10°-20°	1046.1	3.8
20°-30°	1708.4	6.3
30°-40°	2544.2	9.3
40°-50°	3649.1	13.4
50°-60°	5009.7	18.3
60°-70°	6271.9	23.0
70°-80°	5673.9	20.8
80°-90°	1033.5	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°	27323.0	100.0
0°-180°	27323.0	100.0

Coefficient of Utilization



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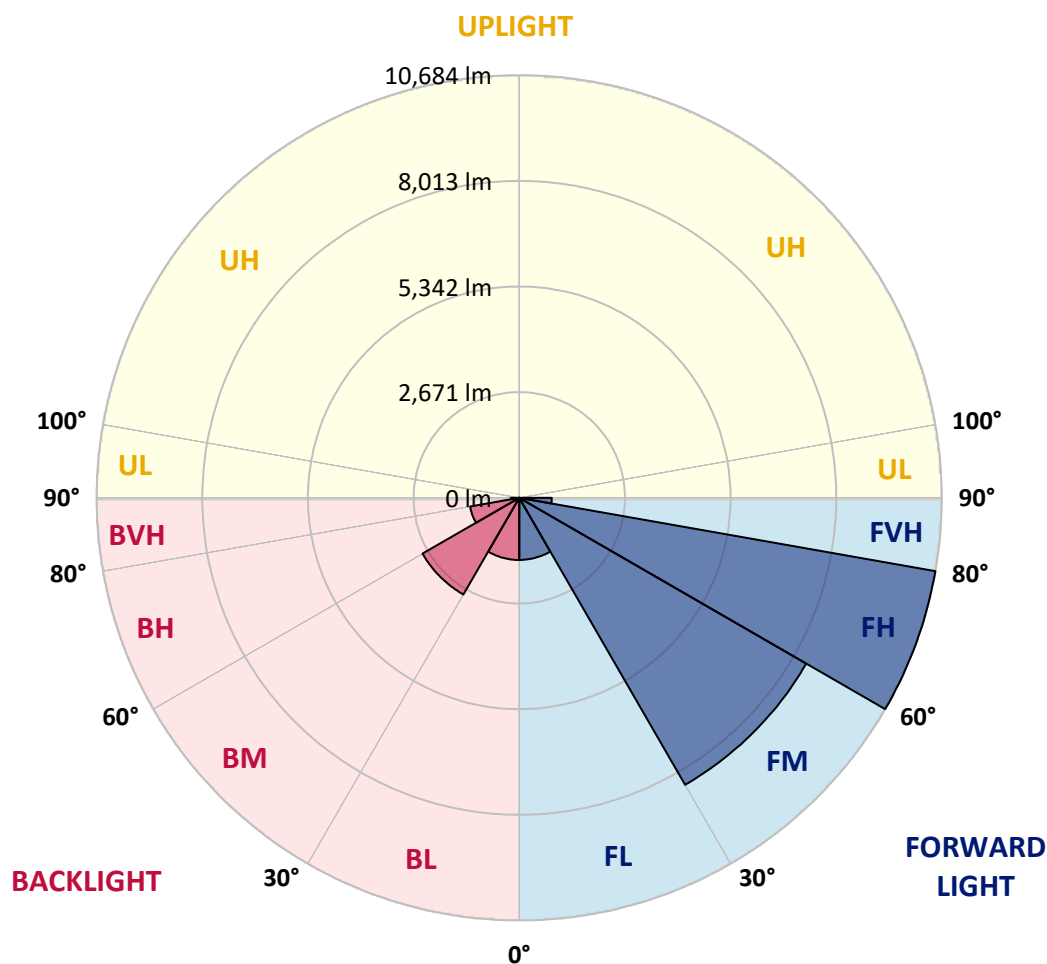
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1569.3	5.7			
FM	(30°-60°)	8379.4	30.7			
FH	(60°-80°)	10684.2	39.1			G4/12000
FVH	(80°-90°)	823.1	3.0			G5
BL	(0°-30°)	1571.4	5.8	B3/2500		
BM	(30°-60°)	2823.6	10.3	B3/5000		
BH	(60°-80°)	1261.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	210.4	0.8			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7
2.5°	3965.9	3950.8	3979.1	3982.9	4007.4	4016.9	4050.8	4103.7	4147.1	4197.1	4242.4
5°	3606.3	3595.9	3635.6	3663.9	3717.7	3740.3	3820.5	3932.9	4032.9	4146.2	4249.0
7.5°	3264.6	3259.0	3303.3	3367.5	3429.8	3460.9	3599.7	3763.0	3930.0	4113.1	4270.7
10°	2976.8	2974.9	3017.4	3080.6	3172.1	3207.1	3386.4	3601.6	3835.6	4087.6	4307.5
12.5°	2815.4	2822.0	2841.8	2894.7	2979.6	3014.5	3213.7	3466.6	3756.4	4079.1	4361.3
15°	2855.0	2865.4	2831.4	2829.5	2889.9	2917.3	3104.2	3370.3	3699.7	4093.3	4439.7
17.5°	3024.0	3025.9	2936.2	2879.6	2916.4	2930.5	3070.2	3315.6	3666.7	4125.4	4537.8
20°	3261.8	3257.1	3098.5	3004.1	3024.0	3027.7	3118.3	3316.5	3663.9	4181.1	4665.3
22.5°	3577.0	3542.1	3328.8	3200.5	3195.7	3190.1	3242.0	3386.4	3705.4	4271.7	4817.2
25°	3988.5	3955.5	3662.0	3486.4	3448.7	3434.5	3442.1	3535.5	3787.5	4368.9	4987.1
27.5°	4446.3	4388.7	4105.6	3857.3	3779.0	3759.2	3713.9	3746.0	3877.2	4462.3	5189.1
30°	4829.5	4798.3	4551.0	4256.6	4164.1	4135.8	4016.9	3981.9	4006.5	4589.7	5443.9
32.5°	5043.7	5023.0	4872.9	4635.0	4549.2	4509.5	4341.5	4271.7	4214.1	4790.8	5789.3
35°	5303.3	5290.1	5199.4	5026.7	4899.3	4857.8	4727.5	4654.9	4506.7	5067.3	6235.7
37.5°	5633.6	5619.4	5621.3	5481.6	5329.7	5291.0	5205.1	5128.7	4886.1	5430.7	6720.9
40°	6007.3	5980.0	5969.6	5963.0	5866.7	5845.0	5799.7	5695.9	5361.8	5864.8	7199.4
42.5°	6569.9	6472.6	6265.0	6343.3	6438.7	6427.3	6464.2	6315.0	5890.3	6378.3	7666.6
45°	7112.5	6953.0	6594.4	6611.4	6820.0	6883.2	7158.8	7053.1	6463.2	6940.8	8149.8
47.5°	7359.8	7239.0	6934.2	6935.1	7141.8	7273.0	7877.0	7801.5	7065.4	7579.7	8739.7
50°	7636.4	7515.6	7241.9	7344.7	7525.0	7664.7	8570.7	8532.0	7638.3	8279.1	9446.6
52.5°	7938.4	7733.6	7559.9	7744.0	7996.9	8159.2	9265.4	9159.7	8164.0	8983.2	10259.2
55°	7942.2	7886.5	8018.6	8153.6	8532.0	8731.2	9993.1	9713.7	8592.4	9675.0	10920.8
57.5°	8394.2	8303.6	8583.9	8646.2	9140.8	9365.4	10717.0	10196.0	9028.5	10205.4	11277.6
60°	8992.6	8915.2	9144.6	9308.8	9894.0	10194.1	11489.9	10691.5	9371.1	10605.6	11260.6
62.5°	10026.1	9938.3	9935.5	10165.8	10953.9	11303.1	12357.3	11177.5	9507.0	10684.9	10780.2
65°	11539.0	11399.3	11136.0	11245.5	12417.7	12766.0	13326.6	11529.6	9327.7	10260.2	9542.9
67.5°	13011.4	13006.6	12682.9	12907.5	14350.6	14630.0	14430.8	11564.5	8768.0	8781.2	7347.6
70°	14479.0	14497.9	14443.1	15224.6	16962.1	17252.8	15606.8	11095.4	7509.9	6341.5	4401.9
72.5°	15641.8	15637.0	15912.6	17927.7	20351.4	20286.2	16597.8	9674.0	5392.0	3423.2	2103.8
75°	14888.6	14724.4	15545.5	19266.0	22326.8	22008.7	15755.0	6748.2	2798.4	1558.2	1132.6
77.5°	9710.9	9866.6	11071.8	15915.5	19529.3	19142.3	11558.8	3148.5	1318.5	1022.1	821.1
80°	3516.6	3680.9	5184.3	9015.3	13454.9	13391.7	5692.1	1294.0	891.9	772.0	598.4
82.5°	1210.0	1270.4	2045.2	4003.6	7596.7	7879.9	2141.5	735.2	648.4	547.4	409.6
85°	474.7	543.6	935.3	1926.3	3831.9	3860.2	867.4	439.8	451.1	358.6	224.6
87.5°	180.3	219.0	447.4	894.7	1749.8	1607.3	310.5	209.5	256.7	213.3	106.7
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°	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7
2.5°	4277.3	4297.2	4338.7	4367.0	4397.2	4405.7	4409.5	4417.0	4424.6	4421.7	4422.7
5°	4303.8	4342.5	4409.5	4437.8	4451.0	4435.9	4406.6	4383.1	4366.1	4356.6	4353.8
7.5°	4347.2	4401.9	4473.7	4468.9	4438.7	4371.7	4296.2	4239.6	4192.4	4175.4	4166.0
10°	4404.8	4468.9	4519.0	4465.2	4377.4	4261.3	4148.0	4060.3	3989.5	3962.1	3957.4
12.5°	4478.4	4543.5	4552.9	4438.7	4293.4	4134.8	3981.0	3864.9	3759.2	3725.2	3717.7
15°	4573.7	4635.0	4576.5	4392.5	4189.6	3976.3	3777.1	3619.5	3508.1	3466.6	3451.5
17.5°	4673.7	4732.3	4581.3	4316.0	4053.7	3788.5	3538.3	3377.0	3249.5	3201.4	3195.7
20°	4793.6	4820.0	4561.4	4206.6	3866.8	3544.9	3281.6	3129.7	3061.7	3027.7	3024.0
22.5°	4941.8	4913.5	4516.1	4058.4	3629.9	3263.7	3049.4	2978.7	2961.7	2954.1	2957.0
25°	5098.5	5011.6	4449.1	3864.9	3330.7	2982.4	2879.6	2899.4	2922.0	2919.2	2919.2
27.5°	5271.2	5111.7	4346.2	3608.2	2999.4	2752.1	2764.4	2837.1	2871.1	2870.1	2869.2
30°	5493.0	5224.9	4215.1	3299.6	2689.9	2589.8	2664.4	2753.1	2799.3	2797.5	2798.4
32.5°	5765.7	5349.5	4036.7	2955.1	2466.2	2469.9	2555.8	2643.6	2697.4	2692.7	2693.6
35°	6084.7	5489.2	3795.1	2615.3	2318.0	2374.6	2442.6	2503.9	2554.9	2548.3	2541.7
37.5°	6432.1	5626.0	3474.2	2311.4	2197.2	2285.9	2342.5	2352.9	2376.5	2359.5	2347.3
40°	6762.4	5730.8	3060.8	2062.2	2075.4	2210.4	2247.2	2205.7	2163.2	2157.5	2140.6
42.5°	7050.3	5765.7	2642.7	1863.1	1947.1	2131.1	2153.8	2066.9	1990.5	1954.6	1939.5
45°	7354.2	5778.0	2252.9	1696.0	1823.4	2060.3	2084.9	1968.8	1861.2	1783.8	1758.3
47.5°	7751.5	5866.7	1949.9	1572.4	1729.1	2013.1	2048.1	1890.5	1750.8	1640.3	1616.7
50°	8271.5	6042.3	1703.6	1478.0	1667.7	1982.0	2021.6	1814.0	1660.2	1527.1	1503.5
52.5°	8849.2	6203.7	1504.4	1401.6	1608.3	1927.3	1987.7	1759.3	1575.2	1422.3	1396.8
55°	9253.1	6080.0	1344.0	1322.3	1530.9	1848.9	1940.5	1713.0	1453.5	1320.4	1297.7
57.5°	9330.5	5657.2	1222.2	1240.2	1437.4	1750.8	1867.8	1610.1	1387.4	1276.0	1252.4
60°	9119.1	5068.3	1131.6	1164.7	1337.4	1627.1	1731.9	1537.5	1324.2	1228.8	1209.0
62.5°	8587.7	4465.2	1064.6	1096.7	1243.9	1501.6	1646.9	1461.0	1260.0	1175.0	1155.2
65°	7514.6	3748.8	1000.4	1036.3	1157.1	1393.1	1570.5	1390.2	1196.8	1131.6	1112.8
67.5°	5672.3	2807.8	940.0	972.1	1079.7	1298.7	1487.4	1320.4	1135.4	1093.9	1071.2
70°	3340.1	1758.3	871.1	905.1	998.6	1200.5	1398.7	1243.9	1059.0	1040.1	1010.8
72.5°	1554.5	1058.0	792.8	825.8	896.6	1069.3	1284.5	1143.9	968.3	926.8	887.2
75°	927.8	773.9	700.3	729.6	779.6	929.7	1141.1	1042.0	882.5	827.7	786.2
77.5°	693.7	591.8	598.4	629.5	670.1	813.6	1010.8	961.7	816.4	773.9	745.6
80°	499.3	449.3	487.9	521.9	564.4	739.9	968.3	889.1	738.1	681.4	655.0
82.5°	333.2	322.8	367.1	402.1	443.6	647.5	909.8	778.6	630.5	558.7	500.2
85°	184.0	194.4	247.3	262.4	298.2	455.9	745.6	625.7	474.7	382.2	365.3
87.5°	76.4	89.7	133.1	128.4	158.6	271.8	490.8	377.5	302.0	225.6	175.5
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)