

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: P323064

Luminaire Tested: **GAN-SA0D-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44232 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

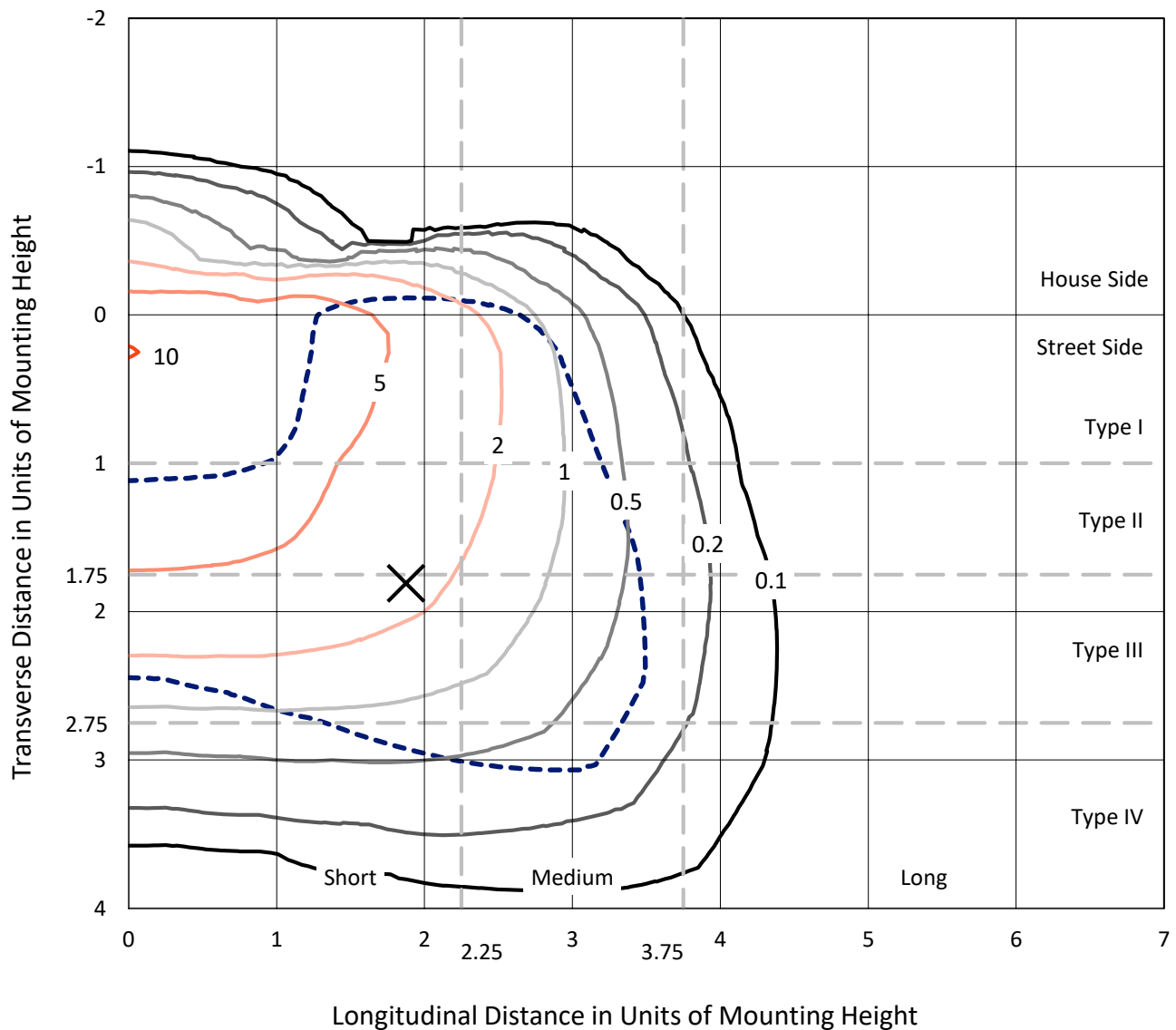
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

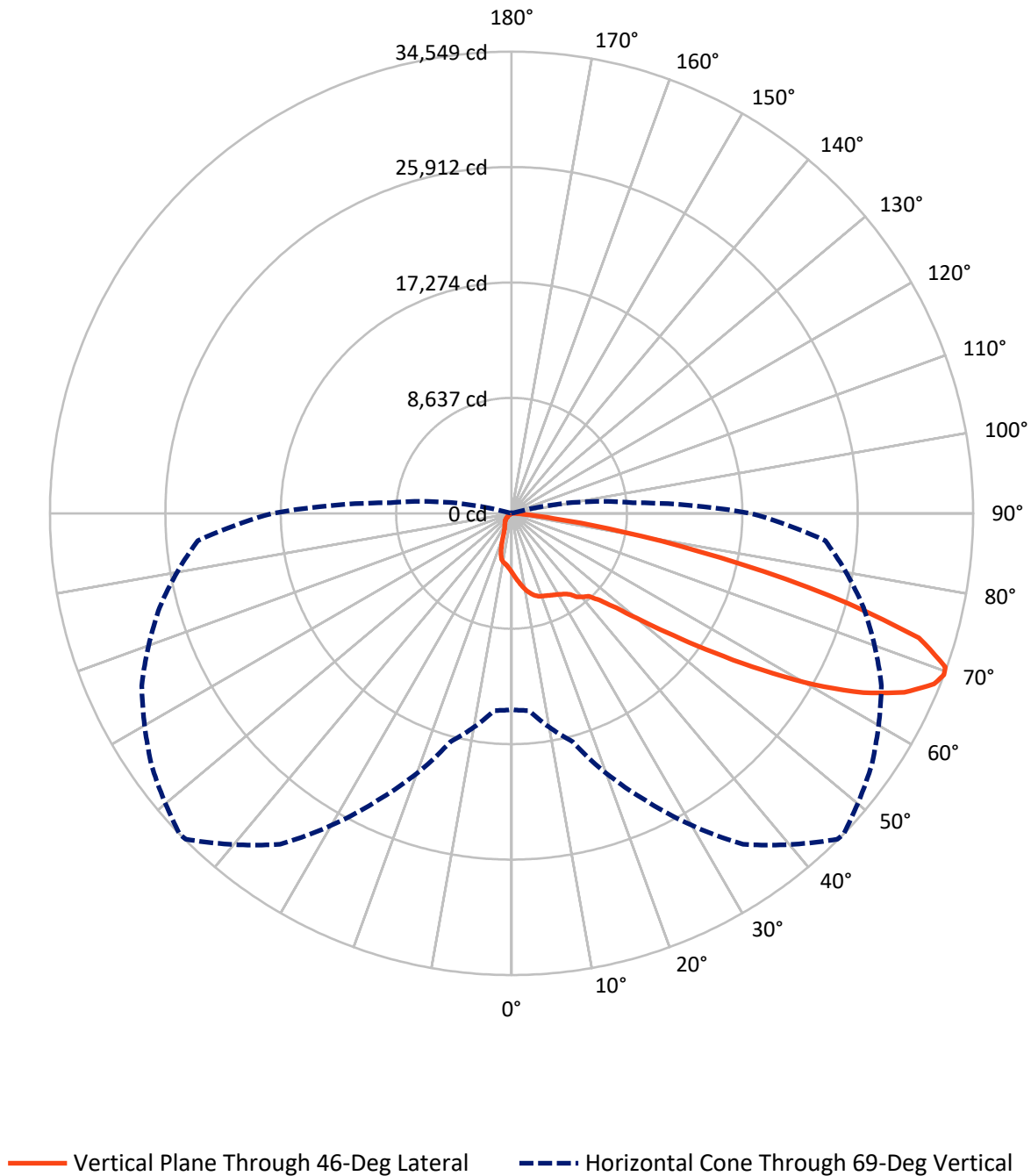
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	4539.4	0.0	4539.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	39692.6	0.0	39692.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	44232.0	0.0	44232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.1	1.0
10°-20°	1338.3	3.0
20°-30°	2104.6	4.8
30°-40°	3018.1	6.8
40°-50°	5216.4	11.8
50°-60°	10305.4	23.3
60°-70°	14402.8	32.6
70°-80°	6958.1	15.7
80°-90°	447.2	1.0
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°	44232.0	100.0
0°-180°	44232.0	100.0

Coefficient of Utilization



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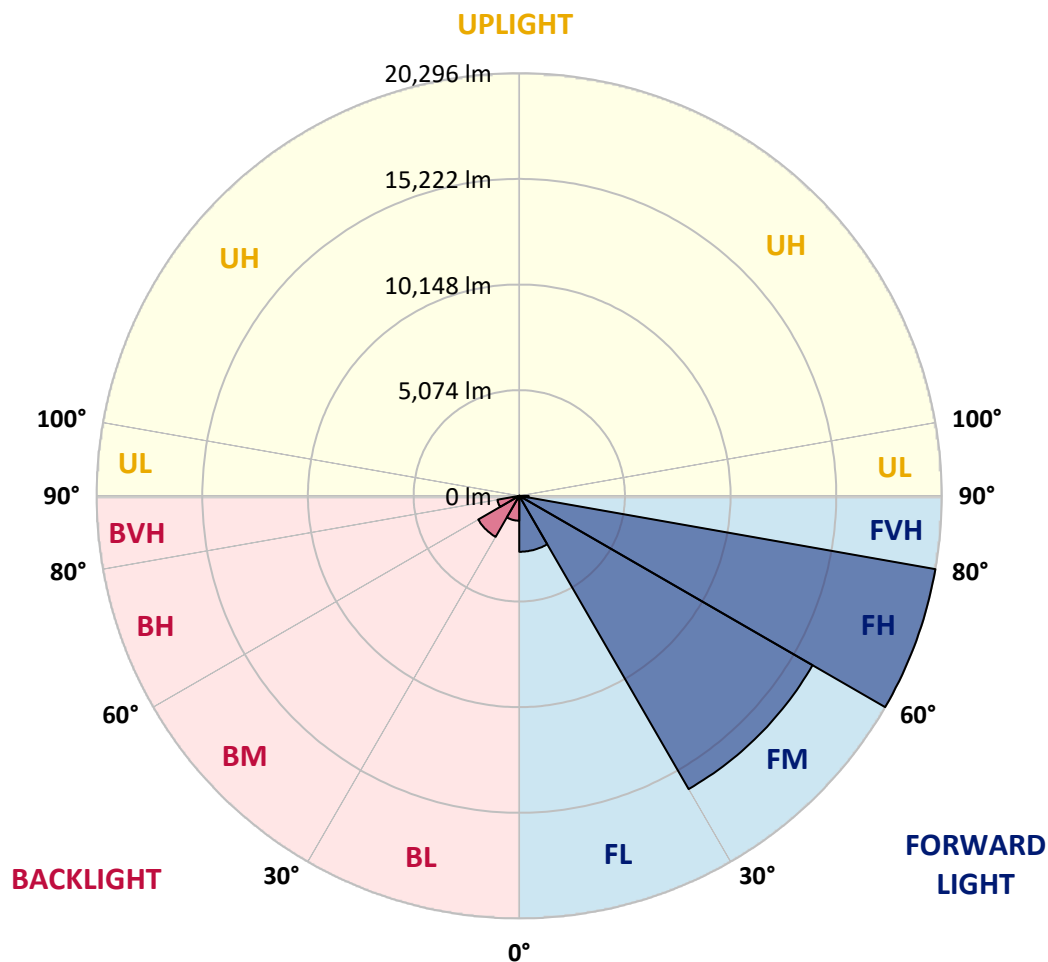
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2687.6	6.1			
FM	(30°-60°)	16265.1	36.8			
FH	(60°-80°)	20296.4	45.9			G5
FVH	(80°-90°)	443.5	1.0			G3/500
BL	(0°-30°)	1196.4	2.7	B3/2500		
BM	(30°-60°)	2274.8	5.1	B2/2500		
BH	(60°-80°)	1064.4	2.4	B3/2500		G3/2500
BVH	(80°-90°)	3.8	0.0			G0/10
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°	35°	45°	46°	55°	65°	75°	85°
0°	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9
2.5°	4923.4	4917.2	4888.1	4875.7	4805.2	4763.7	4747.1	4695.3	4620.6	4545.9	4463.0
5°	5483.3	5481.3	5427.3	5375.5	5242.8	5118.3	5095.5	4975.2	4807.3	4649.6	4492.0
7.5°	6055.7	6028.8	5974.8	5875.3	5682.4	5483.3	5464.7	5294.6	5056.1	4828.0	4601.9
10°	6541.0	6524.4	6453.9	6302.5	6076.5	5850.4	5827.6	5618.1	5348.5	5068.6	4780.3
12.5°	6918.5	6906.0	6812.7	6624.0	6383.4	6149.1	6117.9	5931.3	5643.0	5329.9	4989.8
15°	7148.7	7142.4	7028.4	6827.2	6590.8	6387.5	6360.6	6196.8	5929.2	5601.5	5217.9
17.5°	7202.6	7204.7	7086.4	6883.2	6688.3	6543.1	6522.4	6397.9	6173.9	5848.3	5446.0
20°	7082.3	7107.2	7001.4	6825.1	6704.9	6628.1	6611.5	6536.9	6348.1	6041.2	5628.5
22.5°	6912.2	6924.7	6852.1	6733.9	6684.1	6698.6	6690.3	6648.9	6489.2	6207.1	5808.9
25°	6808.5	6808.5	6765.0	6665.4	6698.6	6787.8	6789.9	6781.6	6655.1	6410.4	6028.8
27.5°	6804.4	6792.0	6742.2	6667.5	6758.8	6895.7	6903.9	6959.9	6881.1	6657.2	6302.5
30°	6970.3	6955.8	6850.0	6752.6	6868.7	7015.9	7036.7	7159.0	7119.6	6924.7	6607.4
32.5°	7358.1	7306.3	7071.9	6912.2	6999.3	7175.6	7202.6	7397.5	7459.7	7254.4	6901.9
35°	7889.0	7725.2	7387.2	7215.0	7223.3	7407.9	7432.8	7719.0	7903.6	7557.2	7130.0
37.5°	8621.1	8540.2	7990.7	7530.3	7567.6	7847.6	7920.1	8231.2	8179.4	7723.1	7389.2
40°	10226.3	10099.8	9515.0	8413.7	7897.3	8204.3	8227.1	8393.0	8397.1	8098.5	7928.4
42.5°	12412.2	12360.3	11744.4	10016.8	8546.5	8442.8	8484.2	8764.2	9077.4	8890.7	8882.4
45°	14832.4	14805.4	14152.2	12144.6	9859.2	9224.6	9276.5	9651.8	10251.2	10292.7	10556.0
47.5°	16779.8	16767.3	16391.9	14519.2	11868.8	10549.8	10566.4	10964.6	12018.1	12538.7	12959.7
50°	18555.0	18615.1	18318.6	17088.8	14606.3	12625.8	12586.4	12851.8	14544.1	15396.5	15919.1
52.5°	21022.9	21107.9	20276.3	19486.2	17478.7	15201.5	15170.4	15448.3	17580.3	18219.0	18312.4
55°	23202.6	23057.4	22400.0	22171.8	20981.4	18382.9	18374.6	18619.3	20516.9	20788.6	20960.7
57.5°	24164.8	24108.9	24426.2	24948.8	24650.1	22142.8	22124.1	21937.5	23144.5	23173.5	23702.4
60°	24772.5	24840.9	25813.6	27425.0	28169.5	26189.0	26068.7	24930.1	25653.9	25589.6	26155.8
62.5°	24316.2	24451.0	26201.4	28887.1	30803.3	29720.8	29550.7	27671.8	27798.3	27576.4	28103.1
65°	21893.9	22103.4	24971.6	28611.2	32109.9	32481.1	32309.0	30092.0	29500.9	29135.9	28843.5
67.5°	17777.3	17901.7	20896.4	26211.8	31520.9	34127.8	34092.5	32213.6	30786.7	28872.6	26603.7
69°	14691.4	14813.7	17696.4	23685.8	30224.7	34480.3	34548.8	32893.8	30542.0	27271.5	23571.7
70°	12443.3	12573.9	15259.6	21520.7	28721.2	34316.5	34438.8	32829.5	29841.1	25417.5	20910.9
72.5°	6526.5	6638.5	9394.7	14826.2	23414.1	31510.5	31881.8	30054.7	25295.1	18459.6	12364.5
75°	2051.1	2115.4	3668.7	7750.1	16031.1	24500.8	24585.8	23575.9	17961.9	10153.7	5149.4
77.5°	781.9	763.2	1221.5	2855.7	8104.7	15427.6	15948.1	14732.8	9425.8	3589.9	1188.3
80°	421.0	423.1	634.6	1182.1	3467.5	7928.4	8368.1	7140.4	3349.3	1119.9	273.8
82.5°	182.5	190.8	356.7	626.3	1592.7	2924.2	3144.0	2617.2	1279.6	752.8	101.6
85°	39.4	43.6	172.1	340.1	649.1	821.3	860.7	848.2	815.0	584.8	39.4
87.5°	0.0	0.0	76.7	122.4	163.8	186.6	163.8	213.6	450.0	394.0	20.7
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°	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9
2.5°	4436.0	4398.7	4334.4	4263.9	4214.1	4162.3	4120.8	4102.1	4081.4	4066.9	4085.5
5°	4427.7	4355.1	4230.7	4110.4	4023.3	3952.8	3894.7	3871.9	3849.1	3832.5	3830.5
7.5°	4500.3	4398.7	4207.9	4031.6	3896.8	3801.4	3722.6	3689.4	3662.5	3650.0	3639.7
10°	4639.3	4508.6	4253.5	4023.3	3849.1	3687.4	3517.3	3386.6	3301.6	3262.2	3247.7
12.5°	4819.7	4655.9	4340.6	4066.9	3813.9	3502.8	3141.9	2830.8	2629.7	2563.3	2523.9
15°	5031.2	4828.0	4454.7	4122.9	3685.3	3117.0	2505.2	2098.8	1912.1	1874.8	1833.3
17.5°	5234.5	5010.5	4591.6	4133.2	3403.2	2490.7	1835.4	1559.6	1487.0	1511.9	1518.1
20°	5412.8	5190.9	4726.4	4042.0	2891.0	1868.6	1420.6	1352.2	1379.1	1426.8	1435.1
22.5°	5593.3	5365.1	4850.8	3801.4	2235.6	1418.5	1279.6	1296.2	1323.1	1370.8	1379.1
25°	5813.1	5576.7	4966.9	3359.7	1677.8	1207.0	1215.3	1240.2	1267.1	1310.7	1314.8
27.5°	6066.1	5844.2	5043.7	2785.2	1244.3	1109.5	1136.5	1173.8	1200.8	1242.3	1250.5
30°	6402.1	6196.8	5068.6	2190.0	1043.2	1022.4	1034.9	1080.5	1119.9	1157.2	1163.4
32.5°	6717.3	6545.2	4985.6	1652.9	966.4	941.5	941.5	968.5	1014.1	1049.4	1057.7
35°	7007.6	6895.7	4720.2	1209.1	908.4	866.9	846.1	846.1	875.2	904.2	912.5
37.5°	7391.3	7387.2	4290.9	964.4	852.4	804.7	761.1	727.9	717.6	723.8	727.9
40°	8048.7	8054.9	3730.9	864.8	804.7	740.4	674.0	613.9	557.9	539.2	537.1
42.5°	9075.3	8982.0	3144.0	817.1	763.2	674.0	574.5	493.6	406.5	379.5	377.4
45°	10705.4	10151.6	2521.8	773.6	719.6	599.4	474.9	365.0	294.5	273.8	273.8
47.5°	13080.0	11688.4	1953.6	725.9	661.6	514.3	358.8	263.4	215.7	205.3	207.4
50°	15535.4	13194.0	1497.3	665.7	591.1	425.1	265.5	190.8	163.8	163.8	165.9
52.5°	17713.0	14297.3	1167.6	601.4	504.0	333.9	201.2	149.3	136.9	134.8	136.9
55°	19751.6	15008.7	893.8	526.8	400.3	248.9	153.5	122.4	114.1	109.9	107.8
57.5°	21717.7	15361.2	669.9	425.1	290.3	180.4	122.4	103.7	95.4	89.2	87.1
60°	23026.3	15075.0	460.4	313.2	201.2	130.7	101.6	89.2	78.8	72.6	70.5
62.5°	23764.6	14293.2	296.6	226.1	143.1	97.5	80.9	74.7	60.1	53.9	53.9
65°	23465.9	13003.2	207.4	161.8	103.7	72.6	60.1	60.1	43.6	35.3	33.2
67.5°	20794.8	10985.3	157.6	120.3	74.7	53.9	45.6	51.8	27.0	16.6	16.6
69°	17891.4	9104.3	134.8	99.5	62.2	43.6	39.4	47.7	18.7	12.4	10.4
70°	15550.0	7853.8	122.4	87.1	51.8	37.3	35.3	45.6	18.7	10.4	8.3
72.5°	9303.4	4380.0	93.3	62.2	33.2	29.0	29.0	51.8	18.7	10.4	8.3
75°	3759.9	1543.0	68.4	43.6	24.9	24.9	35.3	66.4	16.6	8.3	6.2
77.5°	852.4	338.0	39.4	27.0	16.6	24.9	41.5	51.8	10.4	4.1	0.0
80°	207.4	83.0	24.9	16.6	10.4	18.7	31.1	29.0	2.1	0.0	0.0
82.5°	68.4	29.0	10.4	8.3	2.1	6.2	14.5	8.3	0.0	0.0	0.0
85°	29.0	16.6	4.1	2.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
87.5°	18.7	6.2	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)