

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: P317544

Luminaire Tested: **GAN-SA0D-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80009 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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

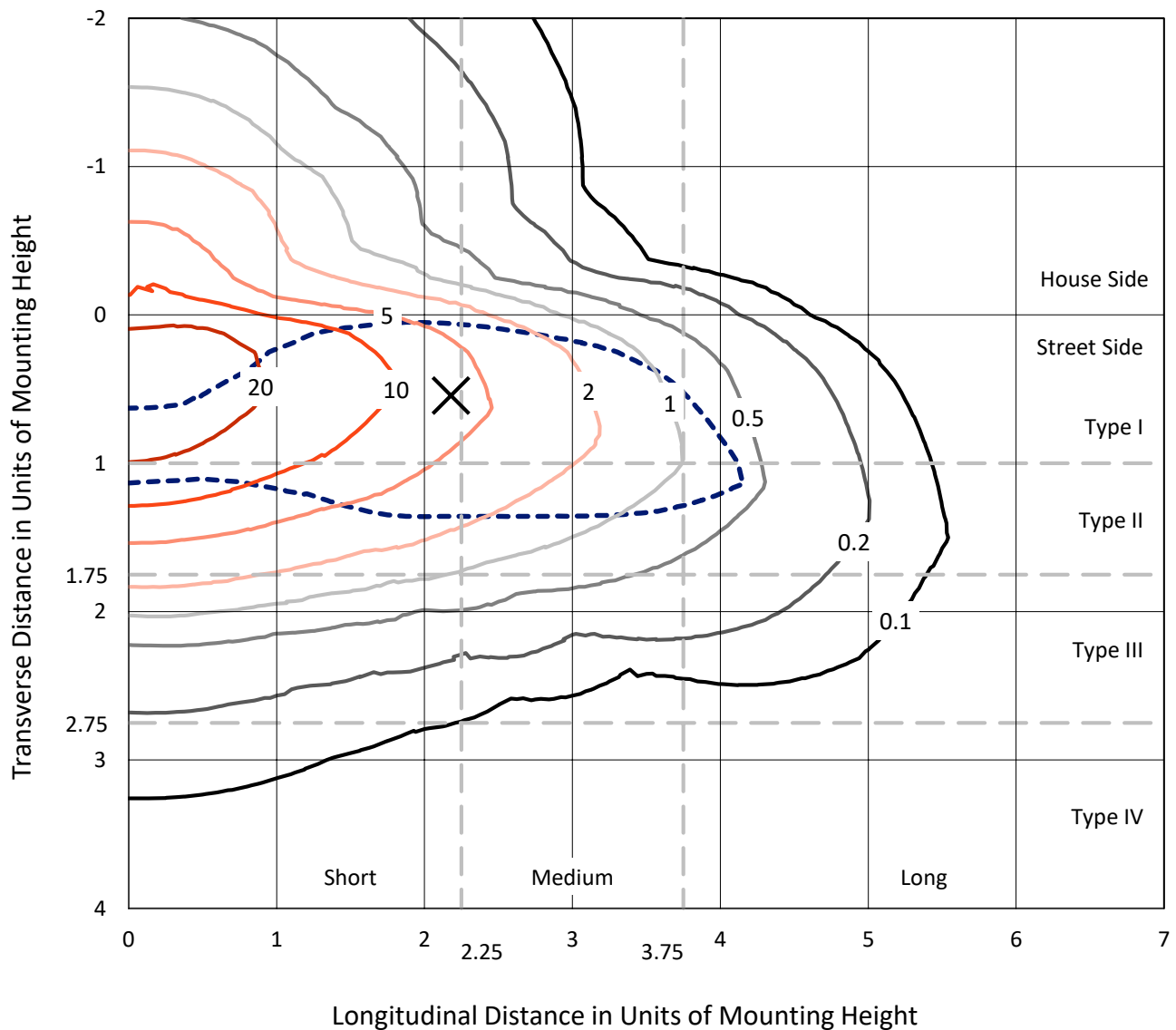


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Iso-Footcandle Lines of Horizontal Illumination

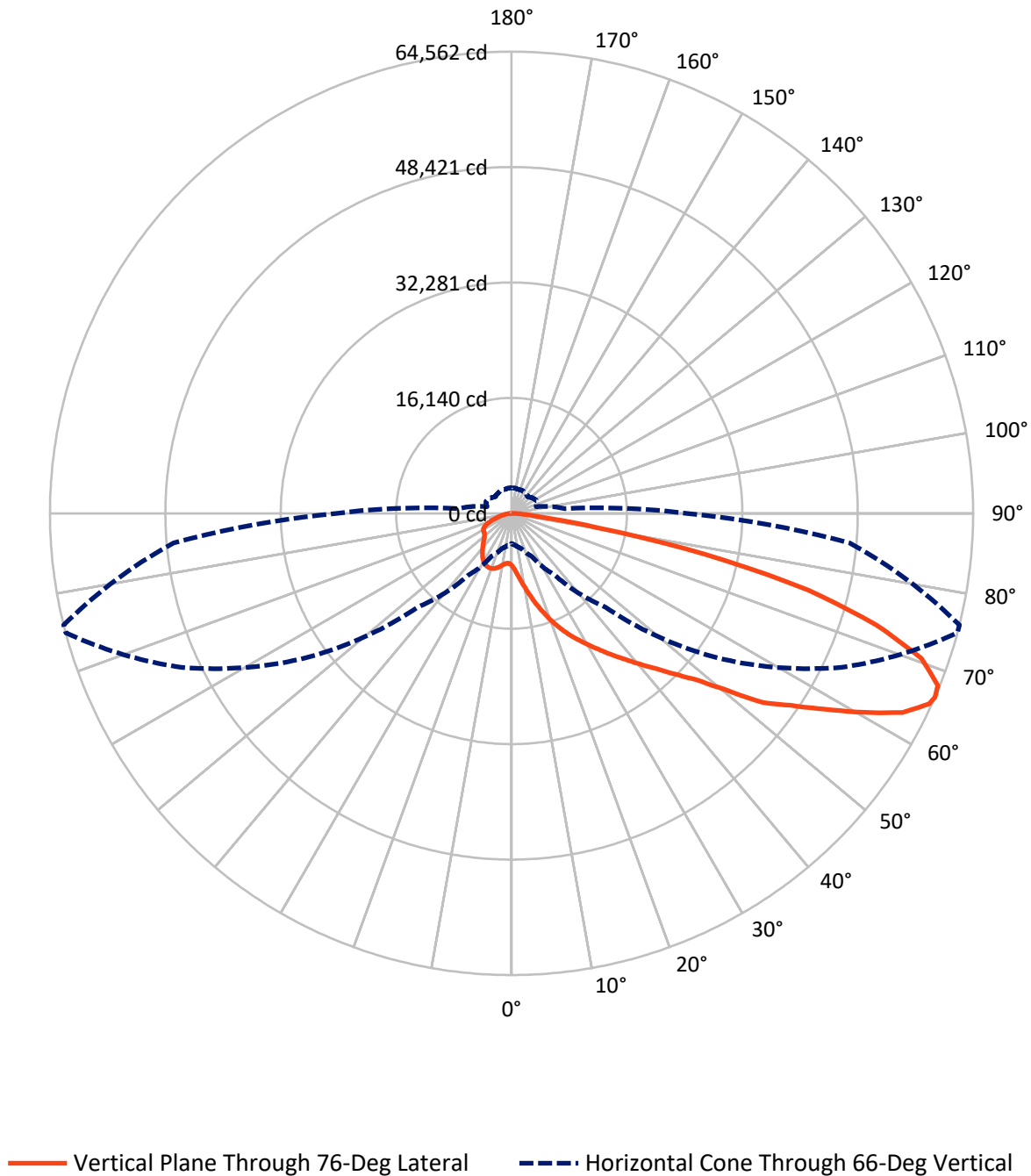
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13462.8	0.0	13462.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	66546.2	0.0	66546.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	80009.0	0.0	80009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.6	1.1
10°-20°	3489.2	4.4
20°-30°	6780.3	8.5
30°-40°	11066.9	13.8
40°-50°	15120.1	18.9
50°-60°	17611.8	22.0
60°-70°	15789.3	19.7
70°-80°	7979.3	10.0
80°-90°	1288.5	1.6
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°	80009.0	100.0
0°-180°	80009.0	100.0

Coefficient of Utilization



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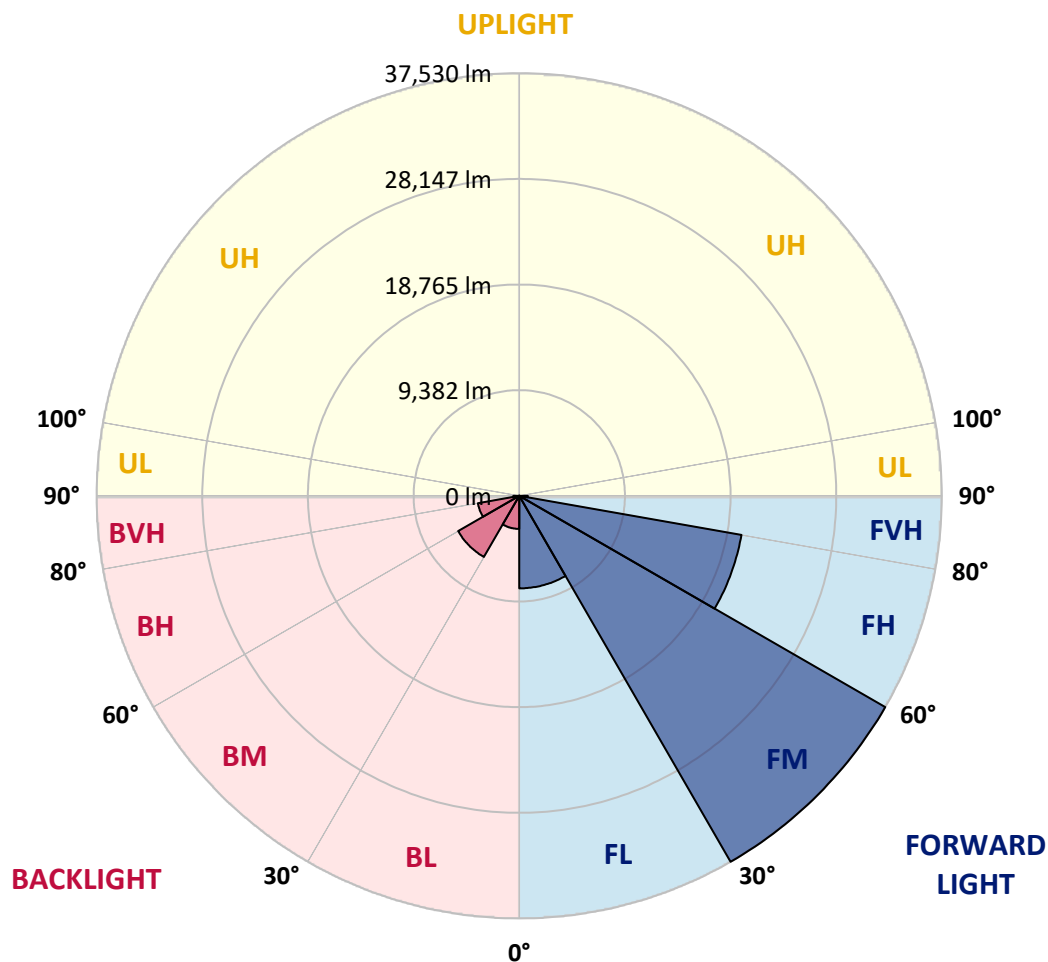
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8216.7	10.3			
FM	(30°-60°)	37529.8	46.9			
FH	(60°-80°)	20038.8	25.0			G5
FVH	(80°-90°)	761.0	1.0			G5
BL	(0°-30°)	2936.3	3.7	B4/5000		
BM	(30°-60°)	6269.1	7.8	B4/8500		
BH	(60°-80°)	3729.8	4.7	B4/5000		G4/5000
BVH	(80°-90°)	527.6	0.7			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6
2.5°	9699.6	9552.9	9539.4	9324.8	9275.9	8865.7	8564.2	8249.2	7890.6	7820.0	7537.5
5°	12459.3	12445.7	12258.3	11907.9	11633.6	10932.8	10240.1	9506.8	8702.8	8572.4	7936.8
7.5°	14941.9	14920.2	14776.2	14398.7	14002.1	13141.1	12152.4	11027.8	9724.1	9531.2	8477.3
10°	16827.0	16818.8	16769.9	16492.9	16156.1	15330.3	14238.4	12703.8	10911.0	10647.6	9153.7
12.5°	18282.9	18299.2	18331.8	18234.0	18073.7	17370.2	16251.1	14480.2	12176.8	11916.0	9906.0
15°	19268.8	19317.7	19486.1	19624.7	19708.9	19277.0	18193.2	16297.3	13594.7	13282.3	10739.9
17.5°	19765.9	19820.2	20110.9	20529.2	20914.9	20871.4	20010.4	18030.3	14955.5	14654.0	11636.3
20°	20195.1	20235.8	20561.8	21064.3	21746.0	22047.5	21564.1	19698.0	16446.7	16088.2	12587.0
22.5°	21439.1	21490.7	21588.5	21873.7	22476.7	23030.8	22797.2	21276.1	17813.0	17478.9	13488.7
25°	23840.2	23902.7	23690.9	23449.1	23563.2	23948.9	23992.4	22715.7	19198.2	18820.7	14458.4
27.5°	26733.0	26822.7	26461.4	25839.4	25296.1	25146.7	25095.1	23894.6	20521.0	20083.7	15417.3
30°	29566.0	29720.9	29251.0	28444.2	27447.4	26746.6	26227.8	25049.0	21824.8	21406.5	16321.8
32.5°	32333.9	32271.4	31589.6	30801.9	29633.9	28756.6	27501.7	26287.6	23291.6	22810.8	17220.8
35°	34229.8	34251.5	33618.6	32684.3	31570.6	30897.0	29207.5	27623.9	24788.2	24345.5	18242.1
37.5°	35843.2	35742.7	35025.6	34153.7	33194.9	32907.0	31203.9	29096.1	26409.8	25926.3	19328.6
40°	36381.0	36264.2	35794.3	35166.9	34398.2	34373.7	33406.8	30763.9	28243.2	27765.2	20553.6
42.5°	36055.1	35905.7	35712.8	35541.7	35305.4	35414.0	35476.5	32719.6	30258.7	29723.6	21971.5
45°	34851.8	34626.3	34762.2	35134.3	35647.6	36261.5	37345.3	34884.4	32515.8	32067.7	23636.5
47.5°	33002.0	32798.3	33222.1	34017.9	35414.0	36967.7	39113.5	37274.7	35210.3	34764.9	26007.8
50°	30399.9	30459.7	31065.4	32513.1	34623.6	37293.7	41291.9	40439.1	39127.1	38711.5	29242.8
52.5°	26130.0	26140.9	27846.7	30223.4	33222.1	37125.3	42500.7	44483.5	44475.4	43972.9	32323.0
55°	22164.3	22406.1	23756.0	26915.0	30951.3	36451.6	43345.4	46450.0	47987.4	47398.0	35194.0
57.5°	18291.0	18432.3	19711.6	22884.1	27710.9	34656.2	44211.9	48810.4	52034.6	51662.5	38763.1
60°	13885.3	14102.6	15425.4	18356.2	23565.9	31470.1	44293.4	51274.0	56872.2	56497.3	42747.8
62.5°	9012.4	9387.2	10625.8	13371.9	18551.8	26887.8	42402.9	52884.8	61457.1	61324.1	46284.4
65°	5179.8	5462.3	6323.4	8442.0	12798.8	21134.9	37907.5	52265.5	64279.3	64203.2	47607.2
66°	4231.9	4408.4	5068.5	6597.7	10560.7	18559.9	35294.5	50959.0	64559.1	64561.8	47455.0
67.5°	3384.4	3463.2	3759.2	4723.5	7792.8	14711.0	30625.4	48077.1	64211.4	64306.5	46474.5
70°	2800.4	2841.2	2933.5	3167.1	4253.6	8871.2	21737.9	40588.4	60721.1	60794.4	42647.3
72.5°	2512.5	2536.9	2572.3	2604.9	3001.4	4957.1	13276.9	32469.7	53237.9	53332.9	36815.6
75°	2276.2	2289.8	2284.3	2287.1	2517.9	3159.0	6861.2	24242.2	43046.6	42856.5	28202.5
77.5°	1999.1	2012.7	1985.6	1991.0	2227.3	2428.3	3414.3	16970.9	29050.0	27708.1	15889.9
80°	1689.5	1700.4	1689.5	1708.5	1939.4	1833.4	1985.6	9547.5	12845.0	12149.6	5649.7
82.5°	1276.6	1322.8	1355.4	1431.4	1597.1	1303.8	1328.2	3718.5	3911.4	3723.9	1732.9
85°	559.5	681.8	1021.3	1094.6	1200.6	782.3	871.9	1515.6	1591.7	1542.8	630.2
87.5°	146.7	160.3	505.2	635.6	665.5	353.1	453.6	689.9	727.9	689.9	209.1
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°	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6	7306.6
2.5°	7388.1	7255.0	7016.0	6804.1	6643.9	6535.2	6426.6	6372.2	6339.7	6307.1	6312.5
5°	7624.4	7355.5	6945.4	6654.7	6491.8	6388.5	6334.2	6312.5	6298.9	6266.3	6266.3
7.5°	7980.2	7600.0	7035.0	6736.2	6608.6	6529.8	6497.2	6486.3	6470.0	6432.0	6437.4
10°	8428.4	7896.0	7222.4	6931.8	6815.0	6728.1	6681.9	6665.6	6635.7	6592.3	6597.7
12.5°	8955.4	8262.7	7469.6	7165.4	7024.1	6907.3	6831.3	6785.1	6733.5	6676.5	6679.2
15°	9531.2	8662.0	7735.8	7374.5	7181.7	7018.7	6896.5	6817.7	6736.2	6665.6	6662.9
17.5°	10115.2	9047.7	7939.5	7488.6	7227.9	7013.3	6847.6	6725.4	6624.9	6537.9	6529.8
20°	10745.4	9395.4	8053.6	7477.7	7140.9	6885.6	6665.6	6513.5	6402.1	6315.2	6301.6
22.5°	11386.4	9721.3	8072.6	7366.4	6948.1	6635.7	6404.8	6236.4	6122.4	6032.7	6000.1
25°	11973.1	9974.0	7993.8	7151.8	6679.2	6342.4	6116.9	5945.8	5853.4	5747.5	5714.9
27.5°	12508.2	10150.5	7836.3	6877.5	6377.7	6046.3	5834.4	5687.8	5587.3	5505.8	5478.6
30°	12989.0	10245.6	7578.2	6551.5	6068.0	5766.5	5587.3	5486.8	5399.8	5296.6	5277.6
32.5°	13445.3	10245.6	7246.9	6195.7	5761.1	5519.4	5413.4	5350.9	5253.2	5152.7	5125.5
35°	13901.6	10183.1	6855.7	5823.6	5478.6	5342.8	5337.4	5264.0	5114.6	4978.8	4943.5
37.5°	14382.4	10055.4	6415.7	5475.9	5247.7	5264.0	5310.2	5147.2	4935.4	4742.5	4690.9
40°	14925.6	9878.9	5959.4	5174.4	5054.9	5228.7	5236.9	4978.8	4566.0	4389.4	4343.2
42.5°	15563.9	9702.3	5535.7	4908.2	4902.8	5122.8	5098.3	4614.9	4367.7	4278.0	4253.6
45°	16403.2	9601.8	5133.7	4655.6	4783.3	4951.7	4862.0	4413.9	4310.6	4259.0	4237.3
47.5°	17726.0	9653.4	4764.2	4454.6	4663.7	4780.5	4422.0	4332.4	4259.0	4196.6	4174.8
50°	19382.9	9623.6	4465.5	4316.1	4527.9	4601.3	4223.7	4226.4	4188.4	4117.8	4085.2
52.5°	20629.7	9390.0	4272.6	4237.3	4408.4	4283.5	4098.8	4123.2	4104.2	4001.0	3965.7
55°	21833.0	9189.0	4174.8	4207.4	4321.5	3886.9	3952.1	4011.9	3992.8	3892.3	3876.0
57.5°	23329.6	9150.9	4115.1	4215.6	4248.2	3688.6	3810.9	3889.6	3876.0	3832.6	3824.4
60°	25163.0	9161.8	4060.7	4229.2	4166.7	3541.9	3677.8	3778.3	3786.4	3778.3	3772.8
62.5°	26170.8	8865.7	3924.9	4191.1	4022.7	3414.3	3539.2	3685.9	3688.6	3704.9	3702.2
65°	25315.2	7980.2	3672.3	4058.0	3781.0	3308.4	3419.7	3580.0	3539.2	3612.6	3612.6
66°	24484.0	7469.6	3547.4	3971.1	3677.8	3267.6	3381.7	3525.7	3474.0	3574.5	3574.5
67.5°	22786.4	6608.6	3321.9	3786.4	3531.1	3210.6	3338.2	3436.0	3365.4	3514.8	3503.9
70°	19684.4	5111.9	2868.3	3368.1	3289.3	3126.4	3278.5	3256.7	3153.5	3381.7	3338.2
72.5°	16596.1	3884.2	2303.4	2819.4	2922.7	3020.4	3194.3	3028.6	2898.2	3058.5	2963.4
75°	12877.6	2919.9	1819.9	2192.0	2469.0	2854.7	3093.8	2765.1	2577.7	2561.4	2509.8
77.5°	6961.7	2004.6	1442.3	1673.2	1961.1	2648.3	3025.9	2482.6	2200.1	2134.9	2094.2
80°	2757.0	1303.8	1048.5	1268.5	1371.7	2349.5	2862.9	2154.0	1814.4	1749.2	1686.8
82.5°	1138.1	771.4	676.3	850.2	893.6	2010.0	2569.5	1765.5	1401.6	1939.4	2058.9
85°	488.9	423.7	402.0	440.0	505.2	1409.7	2045.3	1347.2	1512.9	1350.0	1072.9
87.5°	146.7	179.3	171.1	168.4	184.7	336.8	1089.2	749.7	1110.9	421.0	315.1
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)