

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: P192846

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49584 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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: 28.75 FT

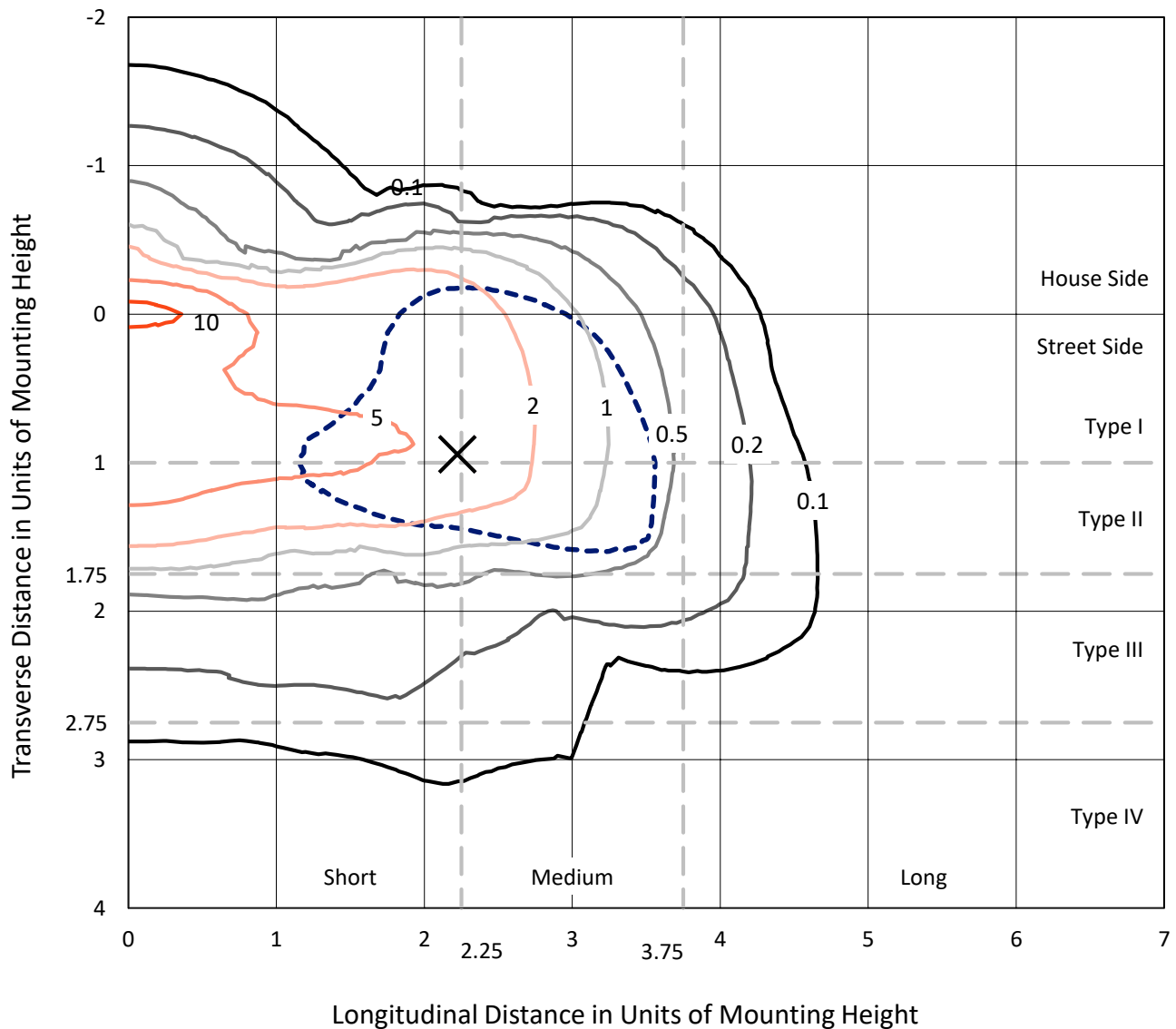


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

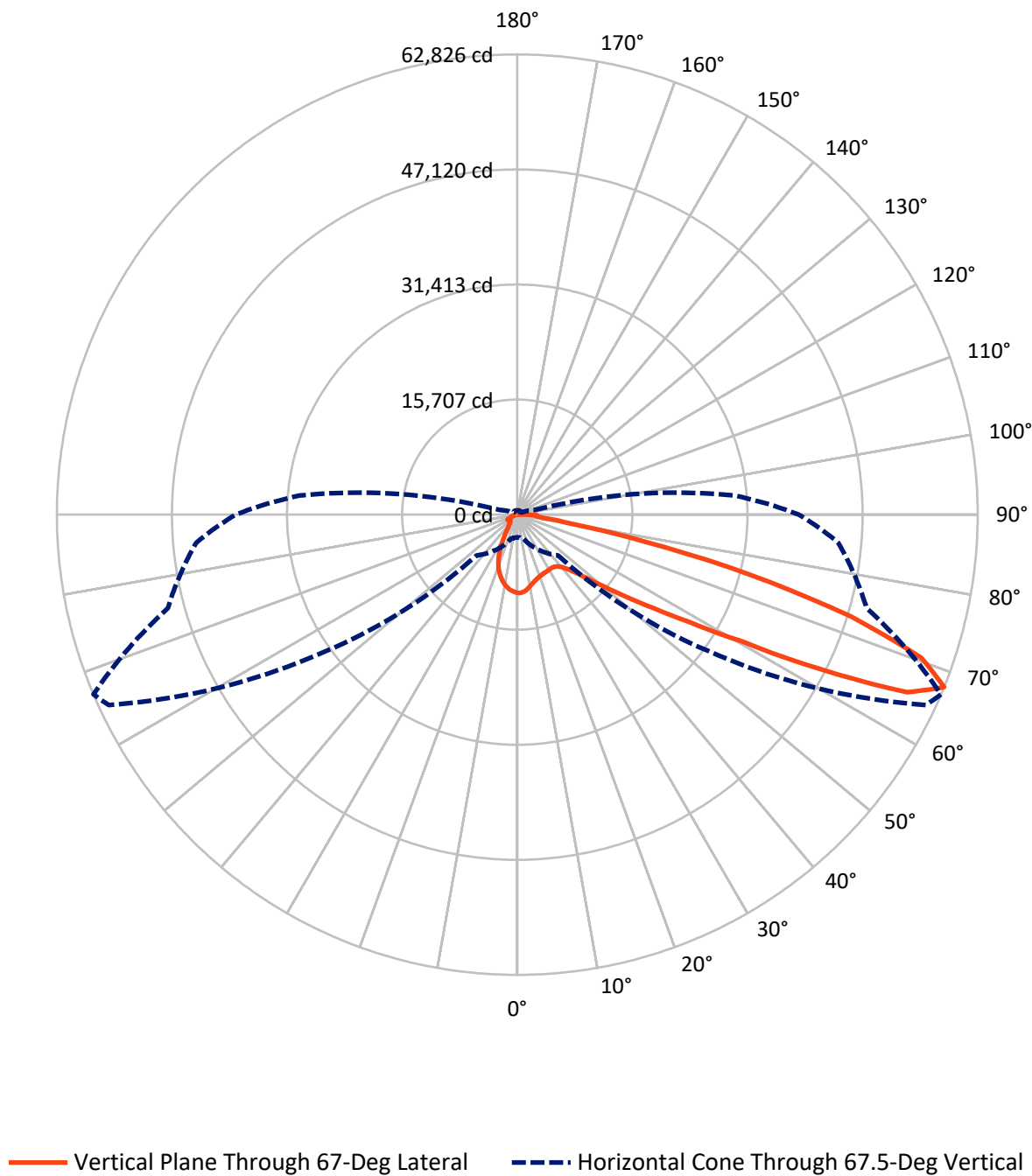


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8215.5	0.0	8215.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	41368.5	0.0	41368.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	49584.0	0.0	49584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.5	1.8
10°-20°	2111.3	4.3
20°-30°	2861.9	5.8
30°-40°	4068.5	8.2
40°-50°	6806.7	13.7
50°-60°	10768.1	21.7
60°-70°	13717.5	27.7
70°-80°	7185.2	14.5
80°-90°	1152.4	2.3
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°	49584.0	100.0
0°-180°	49584.0	100.0

Coefficient of Utilization



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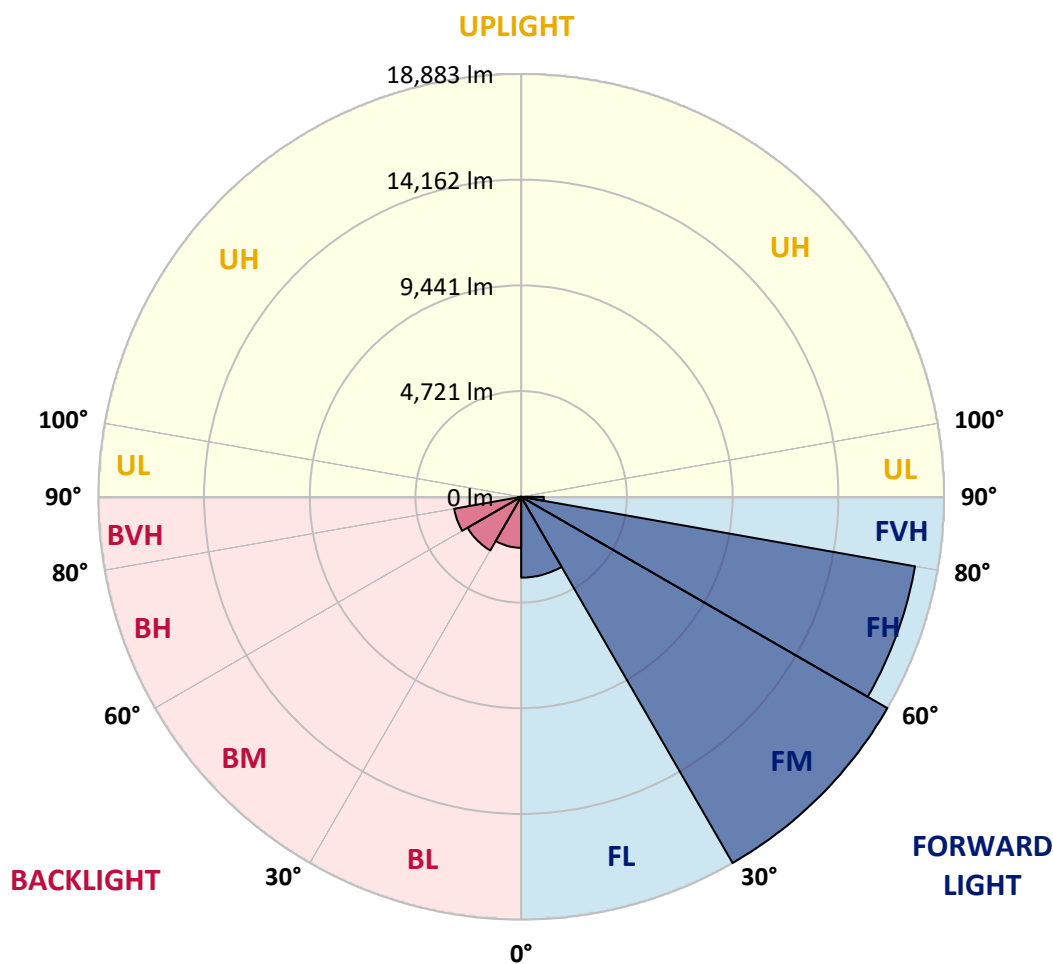
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3608.5	7.3			
FM	(30°-60°)	18882.6	38.1			
FH	(60°-80°)	17864.1	36.0			G5
FVH	(80°-90°)	1013.3	2.0			G5
BL	(0°-30°)	2277.1	4.6	B3/2500		
BM	(30°-60°)	2760.7	5.6	B3/5000		
BH	(60°-80°)	3038.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	139.1	0.3			G2/225
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°	67°	75°	85°
0°	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2
2.5°	10255.1	10272.1	10326.0	10360.2	10514.2	10580.2	10626.7	10673.1	10680.5	10702.5	10680.5
5°	9179.2	9215.8	9316.1	9428.5	9727.0	9961.6	10208.5	10465.3	10511.8	10678.0	10724.5
7.5°	8345.3	8335.6	8418.8	8553.2	8858.8	9184.0	9616.9	10127.9	10228.1	10602.2	10783.3
10°	7736.5	7729.2	7817.2	7956.6	8247.6	8555.6	9044.7	9744.0	9885.8	10482.5	10839.4
12.5°	7286.6	7289.0	7377.0	7531.1	7827.0	8137.5	8633.8	9372.4	9553.3	10343.0	10898.1
15°	6988.3	7007.9	7078.8	7242.6	7531.1	7841.6	8328.3	9093.5	9296.6	10233.0	10964.1
17.5°	6888.0	6919.8	6944.3	7064.0	7311.1	7621.6	8098.4	8888.1	9103.4	10157.2	11022.8
20°	6980.9	7017.6	6971.2	7012.7	7169.3	7443.1	7917.5	8726.7	8946.9	10071.6	11030.2
22.5°	7379.5	7413.8	7276.7	7157.0	7147.2	7313.5	7768.4	8599.7	8827.0	10008.0	11032.6
25°	8081.3	8103.3	7873.4	7594.7	7323.3	7267.1	7663.1	8511.7	8753.8	9951.8	10986.1
27.5°	8942.0	8959.0	8695.0	8284.2	7739.0	7377.0	7626.6	8460.3	8712.2	9902.9	10907.9
30°	9988.5	10069.3	9714.7	9196.3	8401.6	7702.2	7699.8	8433.4	8665.7	9819.7	10753.9
32.5°	11059.4	11093.7	10849.2	10323.5	9294.0	8274.4	7905.2	8453.0	8653.5	9719.4	10558.3
35°	12145.1	12189.2	12030.2	11607.1	10514.2	9113.1	8306.2	8567.9	8729.3	9685.3	10421.2
37.5°	13551.1	13609.8	13389.7	12900.7	11998.5	10250.1	8973.8	8856.3	8961.6	9783.1	10379.7
40°	15773.8	15746.9	15103.8	14375.1	13622.0	11705.1	9927.4	9345.4	9406.5	10098.5	10506.9
42.5°	18360.8	18294.7	17187.0	16042.7	15406.9	13465.5	11189.1	10193.9	10181.7	10719.7	10954.4
45°	20424.5	20370.7	19373.1	17962.2	17453.6	15470.6	12820.1	11458.0	11367.6	11705.1	11780.8
47.5°	21541.9	21544.4	20969.7	19818.1	19805.9	18018.4	14915.5	13287.0	13130.6	13289.4	13208.8
50°	21150.7	21202.1	21140.9	20774.1	21952.7	21358.5	17651.6	15837.3	15521.9	15678.3	15367.9
52.5°	19258.1	19324.1	19686.0	20248.5	22855.0	25395.4	21671.5	19006.3	18639.5	18583.3	18238.5
55°	15903.3	15984.1	16722.4	18250.6	22104.4	28107.2	28014.3	23045.7	22461.3	21930.7	21784.0
57.5°	10961.7	11096.2	12284.6	14553.7	19676.3	28926.3	35567.3	28804.0	27615.8	25762.2	25796.5
60°	6178.9	6335.4	7736.5	9797.9	14776.1	28036.3	41313.5	37525.9	35017.3	30249.2	30503.4
62.5°	3929.4	4098.1	5161.7	6807.3	8866.2	23243.7	43668.2	49651.6	46465.4	35780.1	36029.6
65°	3181.2	3254.5	3755.8	5618.9	6438.1	14003.4	41880.8	59640.0	58451.7	42800.1	41636.3
67.5°	3105.3	3129.8	3389.0	4716.7	6174.0	7871.0	33405.9	61508.1	62826.0	49355.6	43971.4
70°	3068.6	3154.4	3819.3	4501.6	5912.4	6638.6	20074.9	56387.9	58468.8	51069.8	40863.6
72.5°	1489.1	1484.2	1921.9	4071.2	6660.7	6885.6	10313.7	45624.4	47712.5	44245.3	33579.4
75°	1200.5	1097.8	1049.0	1491.5	6403.9	7110.6	6572.6	31393.5	32904.6	29664.8	20642.2
77.5°	1139.5	1017.2	931.7	934.0	2706.8	7540.8	5567.7	17375.4	17815.5	13399.5	5655.7
80°	943.8	831.4	770.3	868.1	1310.6	7181.5	6019.9	7863.6	7215.7	3291.2	1882.7
82.5°	655.3	596.7	579.5	728.6	1049.0	5117.7	7000.5	4225.3	3543.1	1648.0	1161.4
85°	418.1	356.9	396.1	530.6	816.7	2362.0	7210.8	3293.6	2618.7	1046.4	655.3
87.5°	193.2	156.5	195.6	293.5	533.0	814.2	6861.2	3699.5	2697.1	552.7	413.2
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°	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2	10695.2
2.5°	10700.1	10653.6	10616.9	10548.4	10472.6	10399.3	10333.3	10250.1	10225.7	10203.7	10237.9
5°	10734.2	10687.8	10553.4	10343.0	10110.8	9893.1	9675.6	9489.7	9374.8	9311.2	9347.9
7.5°	10785.6	10719.7	10440.9	10054.5	9636.4	9255.0	8861.3	8545.8	8313.5	8203.5	8235.3
10°	10832.1	10704.9	10250.1	9670.6	9059.3	8492.0	7871.0	7357.5	6976.1	6775.6	6824.5
12.5°	10851.6	10648.7	9983.6	9191.3	8352.7	7521.3	6606.8	5839.1	5291.3	5090.8	5049.3
15°	10871.2	10585.1	9690.2	8646.1	7499.3	6323.2	5041.9	4122.6	3667.8	3567.6	3545.5
17.5°	10876.1	10475.1	9357.6	8054.4	6499.3	4897.6	3447.6	2863.2	2865.8	3027.1	3046.7
20°	10824.8	10311.3	8954.3	7318.4	5301.2	3386.6	2366.9	2266.7	2635.9	3039.4	3088.2
22.5°	10707.4	10093.7	8497.0	6460.2	3929.4	2230.0	1831.4	1941.4	2418.2	2912.2	2968.5
25°	10558.3	9829.6	7956.6	5464.9	2601.7	1594.2	1535.5	1670.0	1992.8	2323.0	2354.6
27.5°	10355.3	9516.6	7350.2	4325.5	1689.5	1313.1	1352.2	1442.7	1574.7	1721.4	1736.0
30°	10093.7	9142.5	6702.2	3154.4	1276.3	1181.0	1237.3	1286.2	1342.4	1425.5	1432.8
32.5°	9792.9	8783.1	6037.1	2178.6	1132.2	1112.6	1156.5	1181.0	1225.1	1276.3	1281.3
35°	9541.1	8440.8	5347.5	1540.4	1071.0	1061.2	1090.5	1100.4	1141.9	1198.1	1203.1
37.5°	9396.8	8162.0	4636.1	1242.2	1029.4	1014.7	1031.9	1031.9	1090.5	1173.7	1185.9
40°	9406.5	8007.9	3924.5	1122.3	995.2	975.5	978.1	978.1	1054.0	1144.4	1151.7
42.5°	9673.0	8047.1	3293.6	1075.8	968.2	946.3	934.0	941.4	1004.9	1063.6	1068.5
45°	10299.0	8323.4	2701.9	1046.4	941.4	934.0	907.2	904.6	929.1	956.0	956.0
47.5°	11326.1	8868.6	2300.9	1026.9	919.4	916.9	885.1	853.4	850.9	860.8	860.8
50°	12996.1	9807.5	2031.9	1004.9	904.6	885.1	848.5	799.6	782.4	789.8	789.8
52.5°	15499.9	11482.5	1929.2	975.5	872.9	841.2	799.6	750.7	736.0	738.5	738.5
55°	18783.8	14054.8	1914.5	941.4	838.7	787.3	753.2	716.4	699.4	704.1	704.1
57.5°	22796.3	17612.5	2176.2	887.6	792.2	733.5	714.0	689.5	677.3	684.6	682.3
60°	27674.4	22268.1	3227.6	831.4	745.8	684.6	684.6	665.1	655.3	662.6	660.2
62.5°	33293.4	27615.8	4538.2	789.8	696.8	645.5	655.3	645.5	635.8	640.6	638.2
65°	38276.6	31100.1	4249.7	758.0	648.0	608.8	625.9	621.0	613.7	618.6	616.2
67.5°	38420.9	29808.9	2386.4	723.8	601.5	572.2	596.7	594.2	589.2	594.2	591.7
70°	34288.7	25170.5	1344.9	660.2	552.7	528.2	562.3	560.0	555.0	564.9	562.3
72.5°	27471.5	18265.4	983.0	582.0	503.6	481.8	520.8	518.3	518.3	533.0	525.7
75°	15807.9	9399.2	784.9	498.8	452.4	435.3	469.5	471.9	476.8	496.4	481.8
77.5°	4506.4	2929.3	640.6	423.1	388.8	381.5	415.7	420.5	423.1	445.0	425.4
80°	1675.0	1349.7	528.2	354.5	317.8	320.3	352.2	359.5	361.8	383.9	359.5
82.5°	1068.5	890.0	427.9	273.9	249.4	246.9	286.0	295.9	295.9	298.3	283.6
85°	623.6	533.0	322.8	198.1	176.0	168.7	212.7	229.9	222.6	217.7	207.8
87.5°	418.1	366.8	198.1	110.1	95.4	90.4	124.7	136.9	131.9	124.7	117.4
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)