

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: P317703

Luminaire Tested: **GAN-SA9D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59312 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

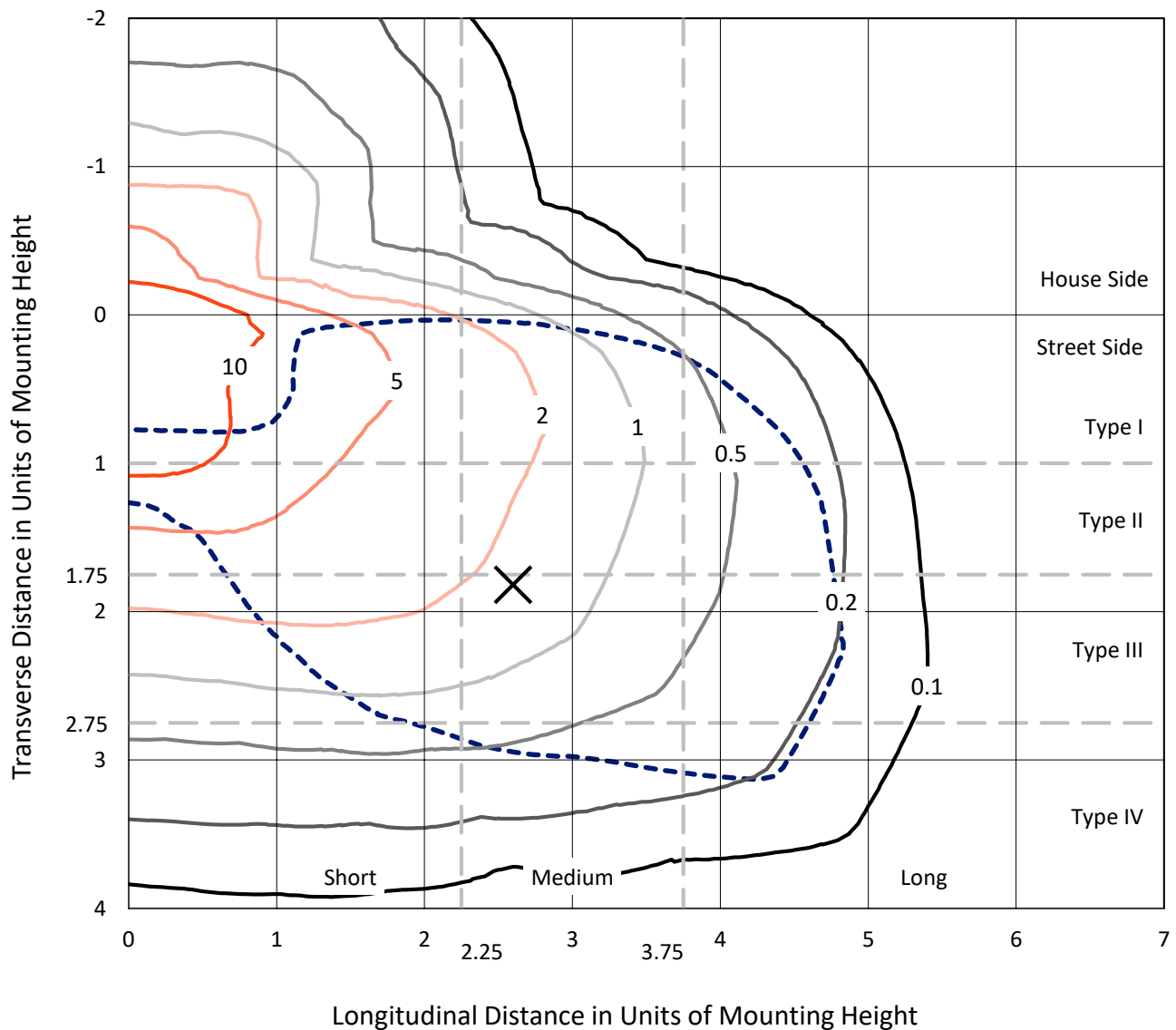
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

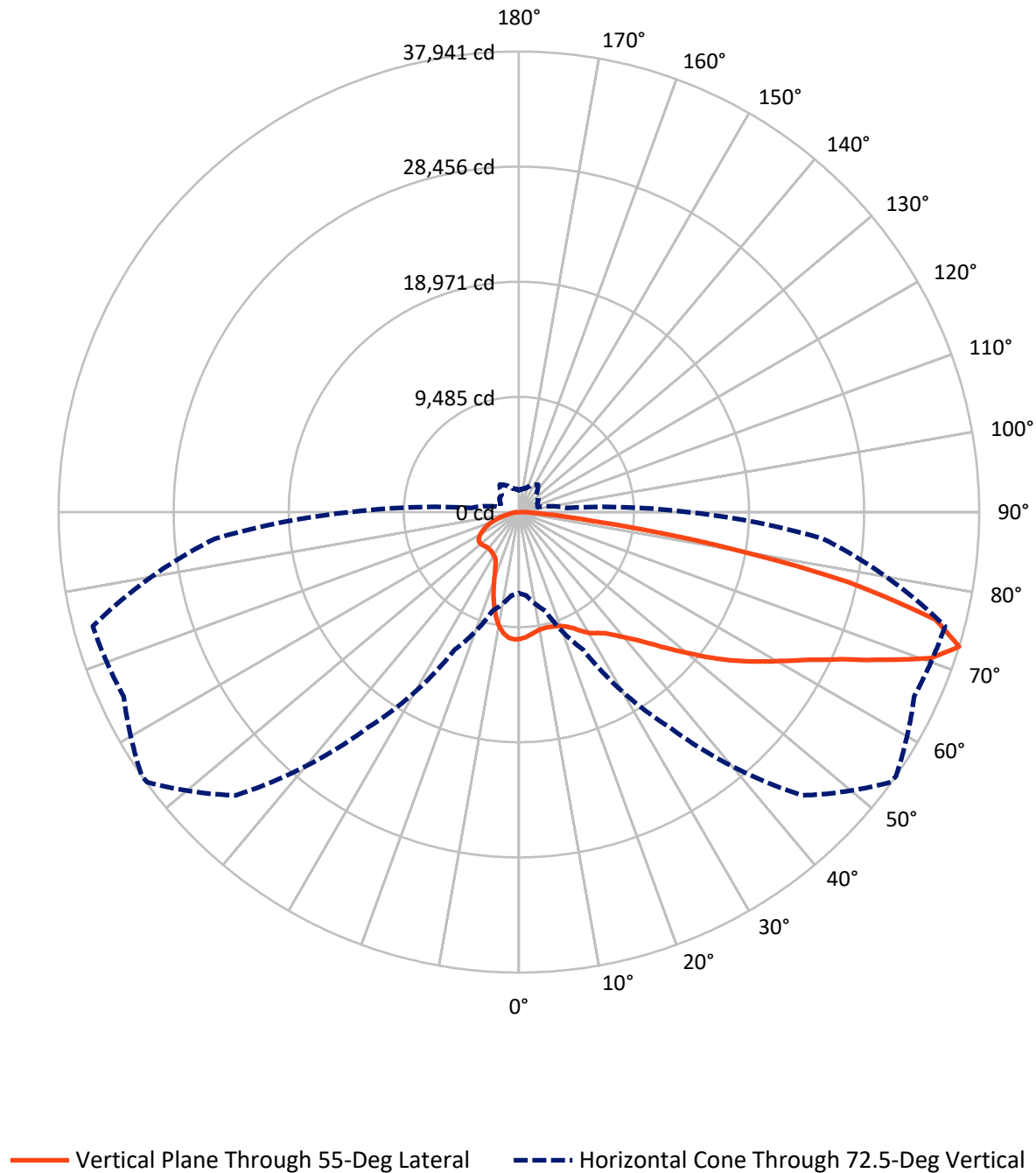
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11024.2	0.0	11024.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	48287.8	0.0	48287.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	59312.0	0.0	59312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.6	1.6
10°-20°	2520.3	4.2
20°-30°	4155.3	7.0
30°-40°	6146.8	10.4
40°-50°	8579.6	14.5
50°-60°	11170.9	18.8
60°-70°	13728.7	23.1
70°-80°	10761.6	18.1
80°-90°	1302.3	2.2
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°	59312.0	100.0
0°-180°	59312.0	100.0

Coefficient of Utilization



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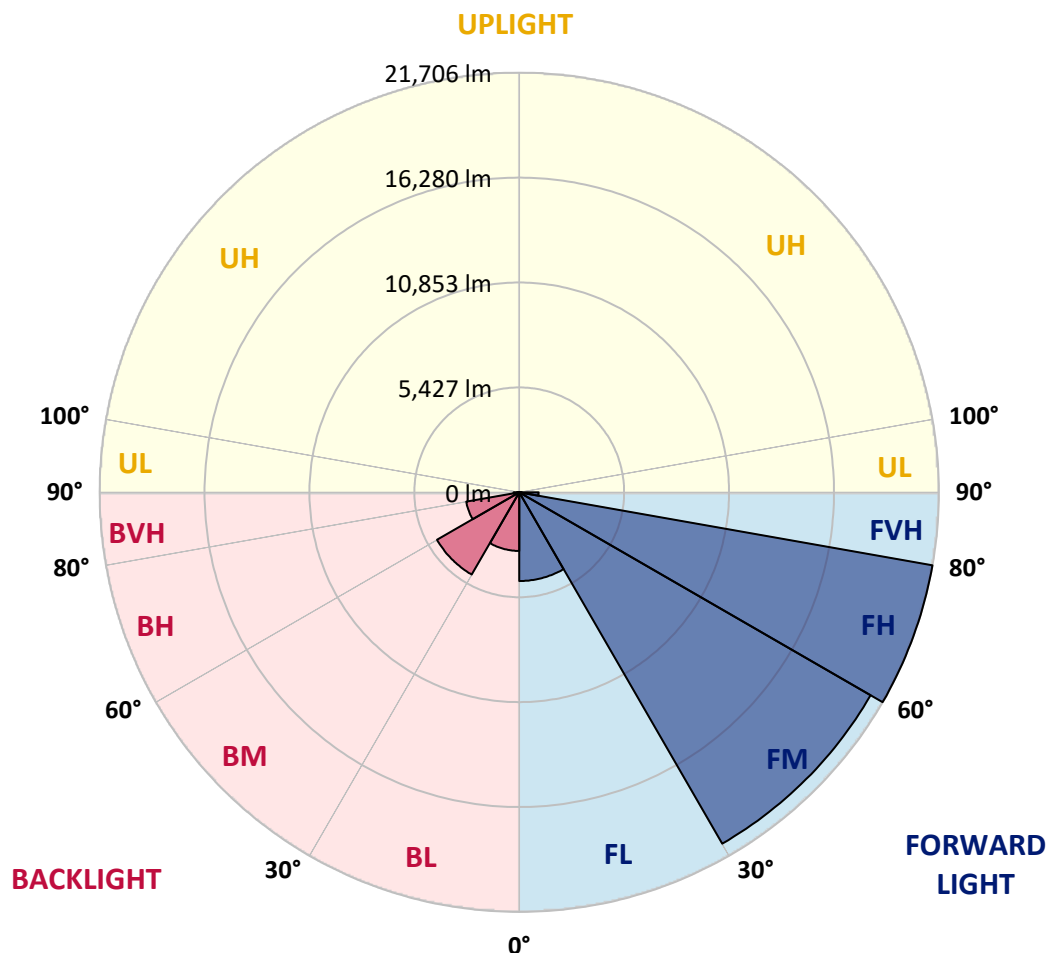
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4589.0	7.7			
FM	(30°-60°)	20985.8	35.4			
FH	(60°-80°)	21706.2	36.6			G5
FVH	(80°-90°)	1006.9	1.7			G5
BL	(0°-30°)	3033.2	5.1	B4/5000		
BM	(30°-60°)	4911.4	8.3	B3/5000		
BH	(60°-80°)	2784.1	4.7	B4/5000		G4/5000
BVH	(80°-90°)	295.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4
2.5°	10120.8	10096.8	10126.8	10168.9	10215.0	10277.1	10313.1	10329.1	10391.2	10415.3	10467.4
5°	9652.0	9640.0	9690.1	9762.2	9864.4	10008.6	10124.8	10146.8	10311.1	10427.3	10533.5
7.5°	9311.5	9311.5	9369.5	9455.7	9569.9	9764.2	9928.5	9958.5	10237.0	10487.4	10683.7
10°	9041.0	9051.0	9119.1	9221.3	9355.5	9561.9	9780.2	9814.3	10217.0	10627.6	10940.2
12.5°	8860.7	8884.7	8946.8	9039.0	9205.3	9455.7	9732.2	9778.2	10259.0	10828.0	11248.7
15°	8974.9	9015.0	9021.0	9059.0	9151.2	9423.6	9760.2	9808.3	10349.2	11032.3	11599.2
17.5°	9475.7	9489.7	9427.6	9347.5	9303.4	9477.7	9844.3	9894.4	10457.4	11234.6	11935.8
20°	10237.0	10229.0	10094.8	9878.4	9654.0	9682.1	9982.6	10034.7	10603.6	11412.9	12272.4
22.5°	11198.6	11170.5	10964.2	10565.5	10182.9	10022.6	10225.0	10269.0	10824.0	11667.4	12633.0
25°	12364.5	12302.4	12030.0	11495.1	10932.1	10519.5	10589.6	10631.6	11144.5	11951.8	12963.5
27.5°	13594.6	13532.5	13185.9	12538.8	11789.6	11146.5	11092.4	11128.5	11509.1	12162.2	13207.9
30°	14880.7	14814.6	14498.1	13772.9	12699.1	11795.6	11561.2	11575.2	11765.5	12276.4	13408.3
32.5°	16172.8	16110.7	15756.1	14914.8	13686.7	12492.7	11899.7	11881.7	11919.8	12394.6	13634.6
35°	17483.0	17507.1	17092.4	16160.8	14780.5	13268.0	12300.4	12262.3	12178.2	12637.0	13955.2
37.5°	18885.3	18869.3	18332.4	17358.8	15924.4	14109.4	12875.4	12869.4	12578.9	13095.7	14458.0
40°	19822.9	19832.9	19506.4	18584.8	17080.3	15041.0	13612.6	13598.6	13217.9	13782.9	15117.1
42.5°	20189.5	20255.6	20339.8	19754.8	18290.4	16120.8	14492.0	14472.0	14109.4	14768.5	15892.4
45°	20215.5	20347.8	20868.6	20794.5	19516.4	17356.8	15615.9	15559.8	15299.4	16078.7	16817.9
47.5°	19991.2	20127.4	20992.8	21413.5	20612.2	18661.0	16930.1	16886.0	16661.7	17717.4	17819.6
50°	19500.4	19630.6	20736.4	21716.0	21513.7	19915.0	18444.6	18328.4	18208.2	19610.5	18965.5
52.5°	18580.8	18831.3	20393.8	21788.2	22052.6	21028.9	20037.3	19961.1	20027.2	21607.9	20113.4
55°	16403.2	16683.7	19510.4	21728.1	22451.3	21964.5	21629.9	21625.9	21968.5	23703.3	21345.4
57.5°	15183.2	15381.5	17711.4	21625.9	22924.0	22894.0	23206.5	23244.6	23911.7	25985.1	22635.6
60°	14494.1	14702.4	16799.9	21247.3	23657.3	24096.0	24815.2	24891.3	25887.0	28511.3	24188.1
62.5°	13867.0	14095.4	16234.9	20476.0	24520.7	25814.8	26742.4	26810.5	27978.4	31107.6	25688.6
65°	12795.2	13053.7	15407.6	19969.1	25306.0	28056.6	29192.4	29238.5	30380.4	33828.1	26836.5
67.5°	11280.7	11517.1	13847.0	18849.3	25887.0	30779.1	32449.9	32475.9	32762.4	35749.3	27423.5
70°	9511.8	9601.9	11623.3	16537.4	25199.8	33325.3	36019.8	36025.8	34934.0	36979.4	27327.3
72.5°	6683.1	6895.4	8438.0	12518.8	21655.9	33014.8	37872.9	37941.0	35943.6	36358.3	25143.7
75°	4098.8	4323.2	5292.8	7586.6	13738.8	25965.1	34992.1	35464.9	34050.5	32417.8	20540.1
77.5°	2740.5	2824.7	3453.7	4423.3	6224.3	14938.8	26902.6	27792.1	28286.9	23641.2	13135.8
80°	1528.5	1688.8	2289.8	2748.6	2768.6	5935.9	16130.8	16339.1	15738.1	9413.6	4052.7
82.5°	809.3	897.5	1528.5	1614.7	1510.5	1987.3	6012.0	6018.0	5028.3	2524.2	1204.0
85°	627.0	701.2	1047.7	985.6	771.3	881.5	1983.3	2091.5	1710.8	1033.7	392.7
87.5°	312.5	388.6	711.2	625.0	302.5	252.4	709.2	757.3	675.1	404.7	142.2
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°	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4	10461.4
2.5°	10487.4	10505.4	10527.5	10503.4	10495.4	10463.4	10409.3	10397.3	10369.2	10371.2	10387.2
5°	10579.6	10609.6	10597.6	10505.4	10395.3	10241.0	10080.7	9944.5	9854.4	9848.3	9842.3
7.5°	10755.8	10775.9	10681.7	10419.3	10110.8	9754.2	9417.6	9123.1	8944.8	8900.8	8890.8
10°	11032.3	11028.3	10769.9	10241.0	9626.0	8988.9	8448.0	8039.3	7800.9	7730.8	7712.8
12.5°	11340.8	11294.7	10799.9	9916.5	8940.8	8057.4	7372.2	6917.5	6669.1	6588.9	6568.9
15°	11659.3	11545.2	10725.8	9431.7	8099.4	7053.7	6334.5	5913.8	5779.6	5735.5	5727.5
17.5°	11955.8	11735.5	10513.4	8774.6	7139.8	6054.0	5493.1	5324.8	5356.9	5415.0	5417.0
20°	12246.3	11863.7	10172.9	7945.2	6128.2	5230.7	5040.4	5164.6	5316.8	5435.0	5451.0
22.5°	12532.8	11953.8	9734.2	6987.6	5222.7	4767.9	4902.1	5128.5	5302.8	5431.0	5453.0
25°	12773.2	11975.9	9129.1	5965.9	4593.6	4593.6	4836.0	5050.4	5222.7	5348.9	5370.9
27.5°	12861.3	11827.6	8275.7	5020.3	4277.1	4513.5	4743.9	4922.2	5068.4	5202.6	5226.7
30°	12895.4	11553.2	7290.1	4261.1	4146.9	4427.3	4619.7	4771.9	4910.1	5036.4	5058.4
32.5°	12901.4	11222.6	6244.4	3830.4	4056.7	4337.2	4465.4	4599.6	4747.9	4798.0	4806.0
35°	12939.5	10832.0	5142.5	3610.0	3972.6	4253.1	4355.2	4451.4	4211.0	4229.0	4245.0
37.5°	13049.7	10445.3	4221.0	3485.8	3918.5	4209.0	4331.2	3982.6	3794.3	3750.2	3744.2
40°	13256.0	10032.6	3537.9	3385.6	3898.5	4231.0	4176.9	3718.2	3393.6	3151.2	3115.2
42.5°	13542.5	9587.9	3101.1	3319.5	3912.5	4337.2	3962.6	3463.7	2924.9	2768.6	2748.6
45°	13865.0	9121.1	2864.8	3273.4	3960.6	4419.3	3918.5	3125.2	2706.5	2588.3	2578.3
47.5°	14177.5	8550.2	2742.6	3253.4	4026.7	4353.2	3732.2	3021.0	2602.3	2540.2	2546.2
50°	14536.1	8035.3	2668.4	3231.4	4084.8	4311.2	3521.8	2966.9	2562.3	2638.4	2718.5
52.5°	14838.6	7502.5	2602.3	3187.3	4106.8	4237.0	3467.8	2976.9	2562.3	2708.5	2784.6
55°	15197.2	7099.8	2526.2	3095.1	4064.7	4026.7	3429.7	3037.0	2592.3	2500.1	2508.2
57.5°	15660.0	6967.6	2442.1	2950.9	3924.5	3720.2	3411.7	3095.1	2574.3	2516.2	2536.2
60°	16301.1	7107.8	2408.0	2762.6	3706.2	3479.8	3413.7	3065.1	2448.1	2347.9	2349.9
62.5°	16912.1	7264.1	2406.0	2644.4	3437.7	3265.4	3367.6	2966.9	2384.0	2325.9	2347.9
65°	17112.4	7105.8	2309.8	2512.2	3135.2	3009.0	3283.4	2862.8	2335.9	2247.7	2243.7
67.5°	16844.0	6615.0	2115.5	2297.8	2788.6	2710.5	3173.3	2738.5	2259.8	2187.6	2175.6
70°	16046.6	5519.2	1875.1	2015.3	2394.0	2373.9	2999.0	2594.3	2157.6	2095.5	2043.4
72.5°	13901.1	3932.5	1580.6	1676.8	1949.2	2013.3	2758.6	2406.0	2013.3	1879.1	1799.0
75°	11416.9	2910.8	1298.2	1318.2	1480.5	1654.7	2428.0	2185.6	1843.1	1614.7	1552.6
77.5°	6991.6	1781.0	1033.7	1041.7	1061.8	1320.2	1999.3	1939.2	1626.7	1346.2	1302.2
80°	2263.8	971.6	747.2	785.3	725.2	967.6	1546.6	1650.7	1396.3	1125.9	1077.8
82.5°	861.4	566.9	504.8	530.9	502.8	649.1	1127.9	1322.2	1143.9	925.5	753.3
85°	416.7	320.5	298.5	334.6	310.5	332.6	721.2	973.6	867.4	603.0	560.9
87.5°	148.2	142.2	114.2	154.3	132.2	118.2	220.4	490.8	573.0	414.7	370.6
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)