

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: P317364

Luminaire Tested: **GAN-SA0B-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317364
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-SA0B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49281 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

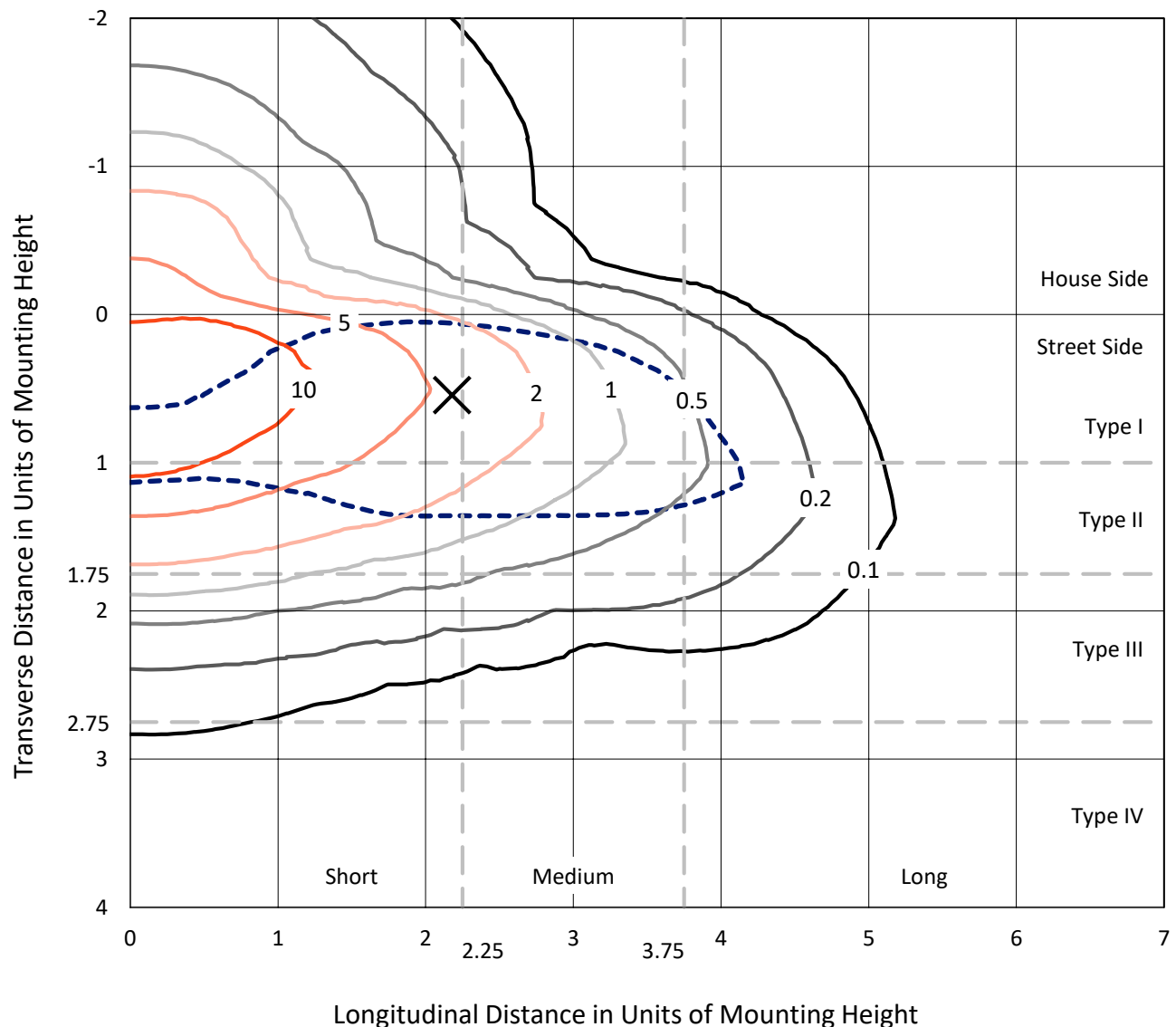


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Iso-Footcandle Lines of Horizontal Illumination

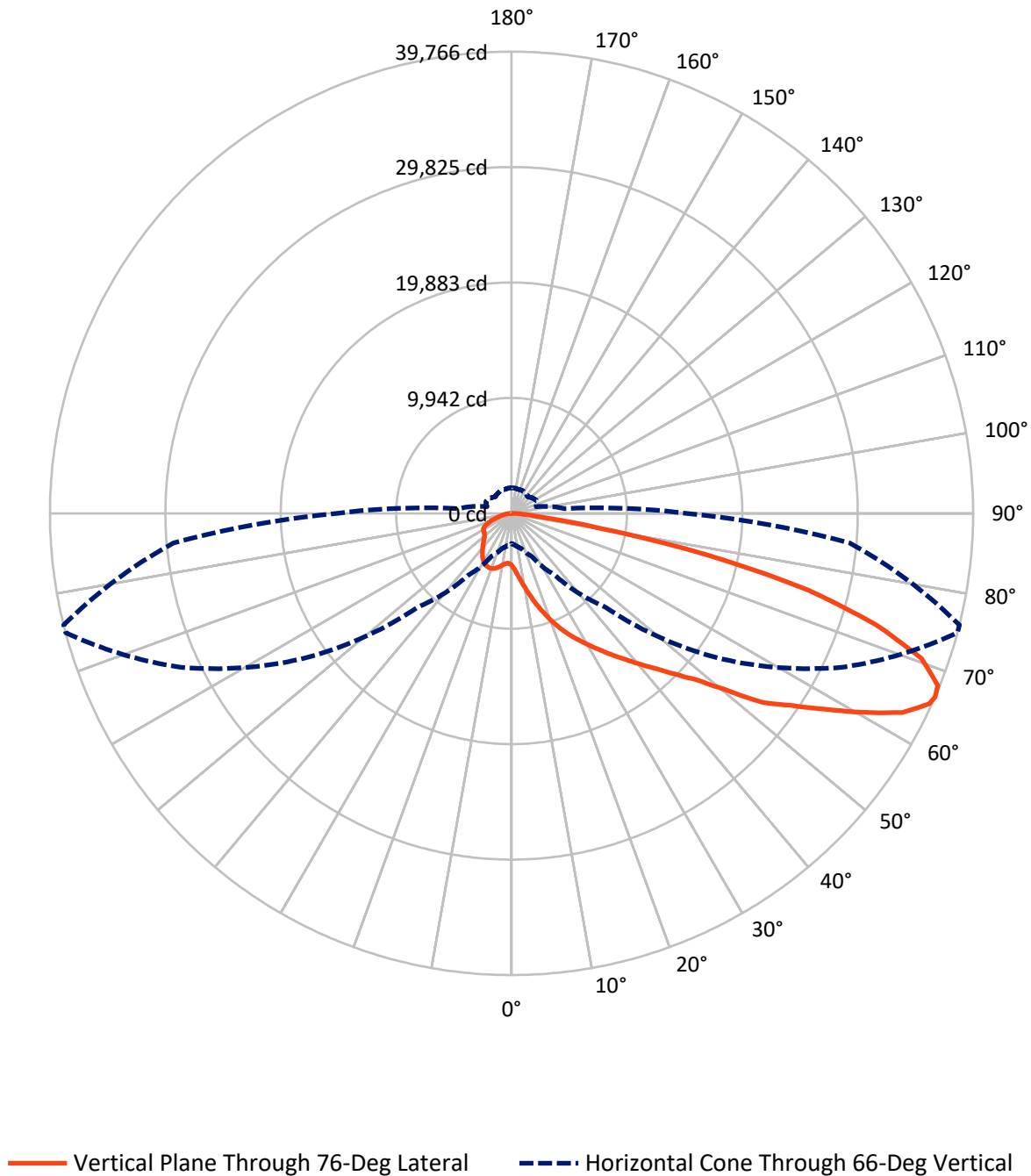
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	8292.3	0.0	8292.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	40988.7	0.0	40988.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	49281.0	0.0	49281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.2	1.1
10°-20°	2149.1	4.4
20°-30°	4176.3	8.5
30°-40°	6816.6	13.8
40°-50°	9313.1	18.9
50°-60°	10847.9	22.0
60°-70°	9725.3	19.7
70°-80°	4914.8	10.0
80°-90°	793.7	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°	49281.0	100.0
0°-180°	49281.0	100.0

Coefficient of Utilization



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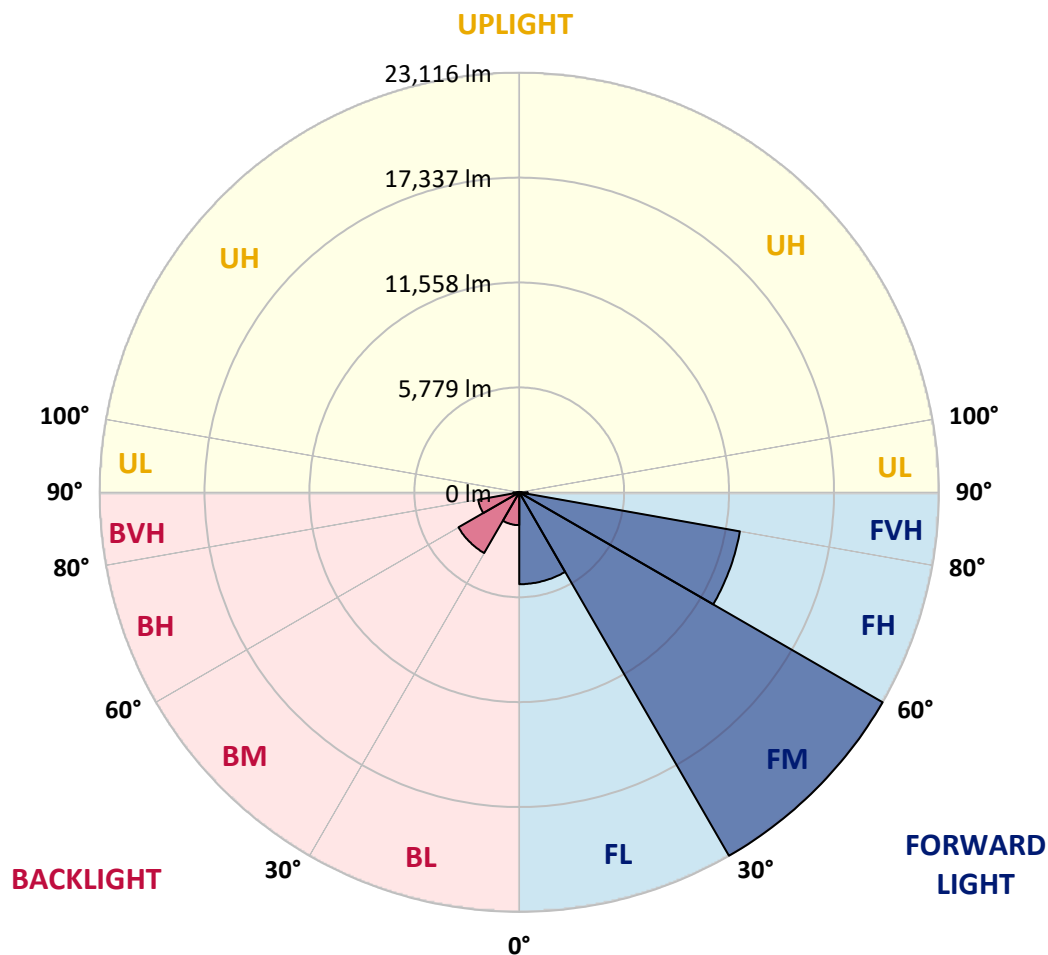
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5061.0	10.3			
FM	(30°-60°)	23116.2	46.9			
FH	(60°-80°)	12342.8	25.0			G5
FVH	(80°-90°)	468.7	1.0			G3/500
BL	(0°-30°)	1808.6	3.7	B3/2500		
BM	(30°-60°)	3861.4	7.8	B3/5000		
BH	(60°-80°)	2297.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	325.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5
2.5°	5974.4	5884.1	5875.7	5743.5	5713.4	5460.8	5275.1	5081.0	4860.2	4816.7	4642.7
5°	7674.2	7665.9	7550.4	7334.6	7165.6	6734.0	6307.3	5855.6	5360.4	5280.1	4888.6
7.5°	9203.4	9190.0	9101.3	8868.8	8624.5	8094.1	7485.2	6792.5	5989.5	5870.7	5221.5
10°	10364.5	10359.4	10329.3	10158.7	9951.2	9442.6	8770.1	7824.8	6720.6	6558.3	5638.1
12.5°	11261.2	11271.2	11291.3	11231.1	11132.4	10699.1	10009.8	8919.0	7500.2	7339.6	6101.6
15°	11868.5	11898.6	12002.4	12087.7	12139.5	11873.5	11206.0	10038.2	8373.5	8181.1	6615.2
17.5°	12174.7	12208.1	12387.2	12644.8	12882.4	12855.6	12325.3	11105.6	9211.7	9026.0	7167.3
20°	12439.0	12464.1	12664.9	12974.4	13394.3	13580.0	13282.2	12132.9	10130.2	9909.4	7752.8
22.5°	13205.3	13237.1	13297.3	13473.0	13844.4	14185.7	14041.8	13104.9	10971.8	10766.0	8308.3
25°	14684.2	14722.7	14592.2	14443.3	14513.6	14751.2	14777.9	13991.6	11825.0	11592.5	8905.6
27.5°	16466.0	16521.2	16298.7	15915.6	15581.0	15489.0	15457.2	14717.7	12639.8	12370.4	9496.2
30°	18211.0	18306.4	18016.9	17520.0	16906.0	16474.4	16154.8	15428.7	13442.8	13185.2	10053.3
32.5°	19915.8	19877.3	19457.4	18972.2	18252.8	17712.4	16939.5	16191.6	14346.3	14050.2	10607.0
35°	21083.6	21097.0	20707.2	20131.6	19445.7	19030.8	17990.2	17014.8	15268.1	14995.4	11236.1
37.5°	22077.4	22015.5	21573.8	21036.8	20446.2	20268.8	19219.8	17921.6	16266.9	15969.1	11905.3
40°	22408.6	22336.7	22047.3	21660.8	21187.3	21172.3	20576.7	18948.8	17396.2	17101.8	12659.9
42.5°	22207.9	22115.9	21997.1	21891.7	21746.1	21813.0	21851.5	20153.4	18637.6	18308.0	13533.2
45°	21466.7	21327.9	21411.5	21640.7	21956.9	22335.0	23002.6	21486.8	20027.9	19751.9	14558.8
47.5°	20327.4	20201.9	20462.9	20953.1	21813.0	22770.0	24091.7	22959.1	21687.6	21413.2	16019.3
50°	18724.6	18761.4	19134.5	20026.2	21326.2	22970.8	25433.5	24908.2	24100.1	23844.1	18011.9
52.5°	16094.6	16101.3	17152.0	18615.9	20462.9	22867.1	26178.0	27399.3	27394.3	27084.8	19909.1
55°	13652.0	13800.9	14632.4	16578.1	19064.2	22452.1	26698.3	28610.6	29557.5	29194.5	21677.5
57.5°	11266.2	11353.2	12141.2	14095.3	17068.3	21346.3	27232.0	30064.5	32050.4	31821.1	23875.9
60°	8552.6	8686.4	9501.2	11306.4	14515.3	19383.8	27282.2	31581.9	35030.0	34799.1	26330.2
62.5°	5551.1	5782.0	6544.9	8236.4	11426.8	16561.4	26117.8	32574.0	37854.1	37772.1	28508.5
65°	3190.5	3364.5	3894.8	5199.8	7883.3	13017.9	23348.9	32192.6	39592.4	39545.6	29323.3
66°	2606.6	2715.3	3121.9	4063.8	6504.8	11431.9	21739.4	31387.8	39764.7	39766.4	29229.6
67.5°	2084.6	2133.1	2315.5	2909.4	4799.9	9061.2	18863.5	29612.7	39550.6	39609.1	28625.6
70°	1724.9	1750.0	1806.9	1950.8	2620.0	5464.1	13389.3	25000.2	37400.7	37445.9	26268.3
72.5°	1547.6	1562.6	1584.4	1604.4	1848.7	3053.3	8177.8	19999.5	32791.5	32850.1	22676.3
75°	1402.0	1410.4	1407.0	1408.7	1550.9	1945.7	4226.1	14931.8	26514.3	26397.2	17371.1
77.5°	1231.4	1239.7	1223.0	1226.3	1371.9	1495.7	2103.0	10453.1	17893.1	17066.6	9787.3
80°	1040.6	1047.3	1040.6	1052.3	1194.5	1129.3	1223.0	5880.7	7911.8	7483.5	3479.9
82.5°	786.3	814.8	834.8	881.7	983.7	803.1	818.1	2290.4	2409.2	2293.7	1067.4
85°	344.6	419.9	629.1	674.2	739.5	481.8	537.0	933.6	980.4	950.3	388.1
87.5°	90.3	98.7	311.2	391.5	409.9	217.5	279.4	425.0	448.4	425.0	128.8
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°	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5
2.5°	4550.7	4468.7	4321.5	4191.0	4092.2	4025.3	3958.4	3924.9	3904.9	3884.8	3888.1
5°	4696.2	4530.6	4278.0	4098.9	3998.6	3935.0	3901.5	3888.1	3879.8	3859.7	3859.7
7.5°	4915.4	4681.2	4333.2	4149.1	4070.5	4022.0	4001.9	3995.2	3985.2	3961.7	3965.1
10°	5191.4	4863.5	4448.6	4269.6	4197.6	4144.1	4115.7	4105.6	4087.2	4060.5	4063.8
12.5°	5516.0	5089.4	4600.8	4413.5	4326.5	4254.5	4207.7	4179.2	4147.5	4112.3	4114.0
15°	5870.7	5335.3	4764.8	4542.3	4423.5	4323.1	4247.8	4199.3	4149.1	4105.6	4104.0
17.5°	6230.4	5572.9	4890.3	4612.6	4451.9	4319.8	4217.7	4142.4	4080.5	4027.0	4022.0
20°	6618.5	5787.0	4960.6	4605.9	4398.4	4241.1	4105.6	4011.9	3943.3	3889.8	3881.4
22.5°	7013.4	5987.8	4972.3	4537.3	4279.6	4087.2	3945.0	3841.3	3771.0	3715.8	3695.7
25°	7374.7	6143.4	4923.7	4405.1	4114.0	3906.5	3767.7	3662.3	3605.4	3540.1	3520.1
27.5°	7704.3	6252.1	4826.7	4236.1	3928.3	3724.2	3593.7	3503.3	3441.4	3391.2	3374.5
30°	8000.5	6310.7	4667.8	4035.4	3737.6	3551.9	3441.4	3379.5	3326.0	3262.4	3250.7
32.5°	8281.5	6310.7	4463.7	3816.2	3548.5	3399.6	3334.4	3295.9	3235.7	3173.7	3157.0
35°	8562.6	6272.2	4222.7	3587.0	3374.5	3290.9	3287.5	3242.3	3150.3	3066.7	3044.9
37.5°	8858.7	6193.6	3951.7	3372.8	3232.3	3242.3	3270.8	3170.4	3039.9	2921.1	2889.3
40°	9193.3	6084.8	3670.6	3187.1	3113.5	3220.6	3225.6	3066.7	2812.4	2703.6	2675.2
42.5°	9586.5	5976.1	3409.6	3023.2	3019.8	3155.3	3140.3	2842.5	2690.2	2635.0	2620.0
45°	10103.5	5914.2	3162.0	2867.6	2946.2	3049.9	2994.7	2718.7	2655.1	2623.3	2609.9
47.5°	10918.2	5946.0	2934.5	2743.8	2872.6	2944.5	2723.7	2668.5	2623.3	2584.8	2571.5
50°	11938.8	5927.6	2750.5	2658.5	2789.0	2834.1	2601.6	2603.2	2579.8	2536.3	2516.2
52.5°	12706.7	5783.7	2631.7	2609.9	2715.3	2638.4	2524.6	2539.7	2528.0	2464.4	2442.6
55°	13447.9	5659.9	2571.5	2591.5	2661.8	2394.1	2434.3	2471.1	2459.4	2397.5	2387.4
57.5°	14369.7	5636.5	2534.6	2596.6	2616.6	2272.0	2347.3	2395.8	2387.4	2360.7	2355.6
60°	15499.0	5643.2	2501.2	2604.9	2566.4	2181.6	2265.3	2327.2	2332.2	2327.2	2323.8
62.5°	16119.7	5460.8	2417.5	2581.5	2477.8	2103.0	2180.0	2270.3	2272.0	2282.0	2280.3
65°	15592.7	4915.4	2261.9	2499.5	2328.9	2037.8	2106.4	2205.1	2180.0	2225.1	2225.1
66°	15080.7	4600.8	2185.0	2446.0	2265.3	2012.7	2082.9	2171.6	2139.8	2201.7	2201.7
67.5°	14035.1	4070.5	2046.1	2332.2	2174.9	1977.5	2056.2	2116.4	2072.9	2164.9	2158.2
70°	12124.5	3148.7	1766.7	2074.6	2026.0	1925.7	2019.4	2006.0	1942.4	2082.9	2056.2
72.5°	10222.2	2392.4	1418.7	1736.6	1800.2	1860.4	1967.5	1865.4	1785.1	1883.8	1825.3
75°	7931.9	1798.5	1120.9	1350.1	1520.8	1758.4	1905.6	1703.2	1587.7	1577.7	1545.9
77.5°	4288.0	1234.7	888.4	1030.6	1207.9	1631.2	1863.8	1529.2	1355.2	1315.0	1289.9
80°	1698.1	803.1	645.8	781.3	844.9	1447.2	1763.4	1326.7	1117.6	1077.4	1039.0
82.5°	701.0	475.1	416.6	523.7	550.4	1238.0	1582.7	1087.5	863.3	1194.5	1268.2
85°	301.1	261.0	247.6	271.0	311.2	868.3	1259.8	829.8	931.9	831.5	660.8
87.5°	90.3	110.4	105.4	103.7	113.8	207.5	670.9	461.8	684.3	259.3	194.1
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)