

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: P317604

Luminaire Tested: **GAN-SA0B-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317604
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-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 46828 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

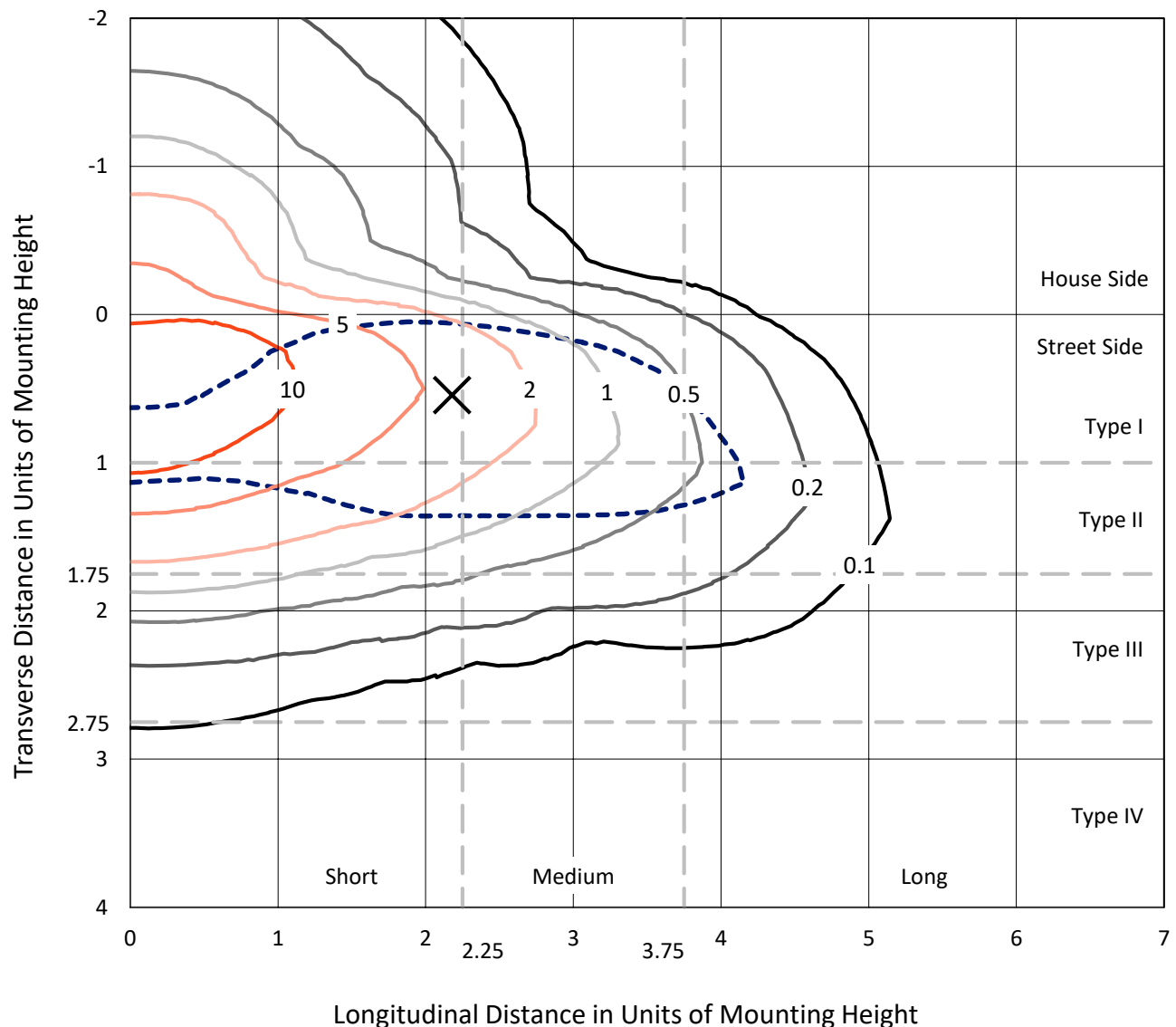


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Iso-Footcandle Lines of Horizontal Illumination

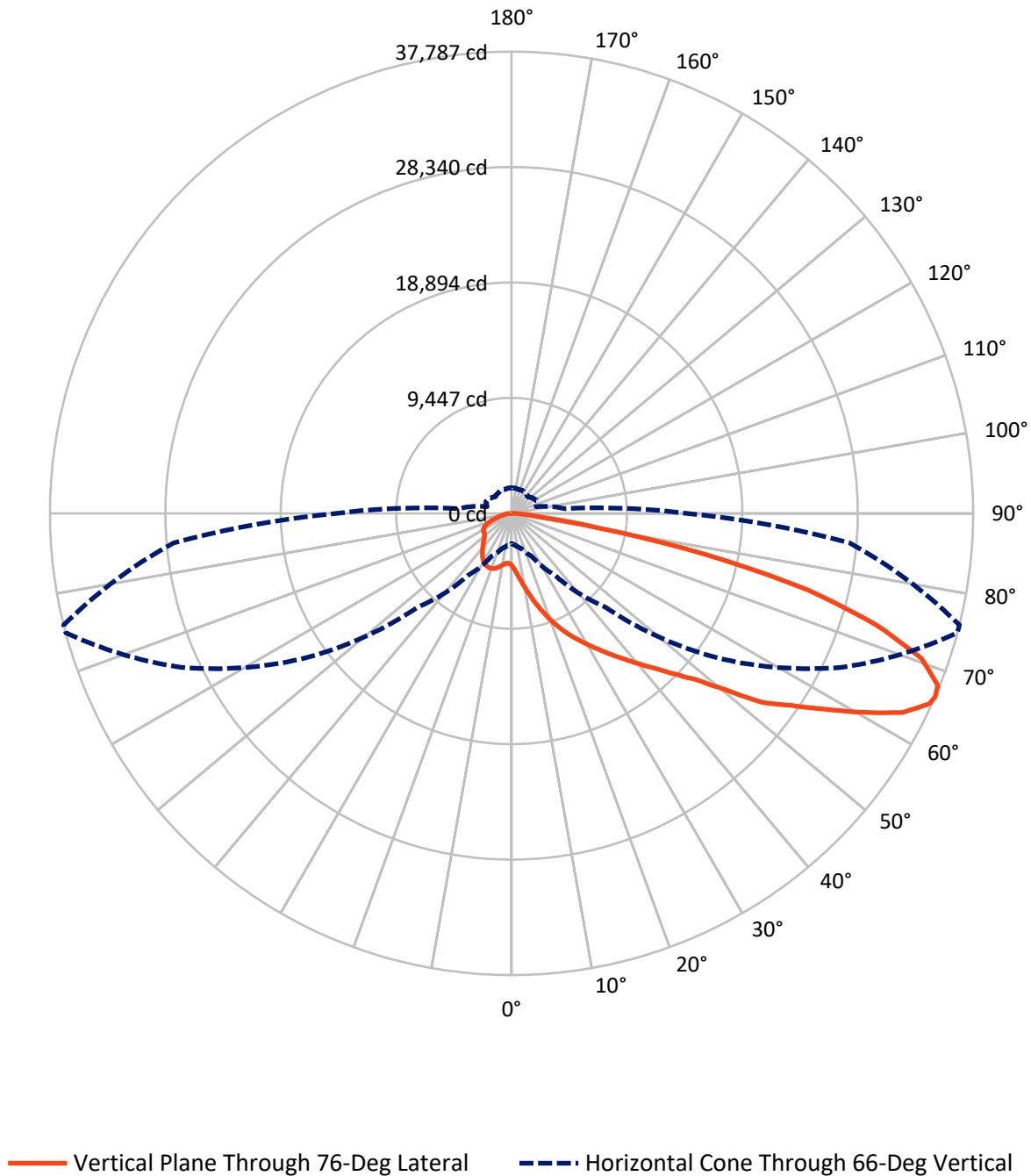
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	7879.5	0.0	7879.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	38948.5	0.0	38948.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	46828.0	0.0	46828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.1	1.1
10°-20°	2042.1	4.4
20°-30°	3968.4	8.5
30°-40°	6477.3	13.8
40°-50°	8849.5	18.9
50°-60°	10307.9	22.0
60°-70°	9241.2	19.7
70°-80°	4670.1	10.0
80°-90°	754.2	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°	46828.0	100.0
0°-180°	46828.0	100.0

Coefficient of Utilization



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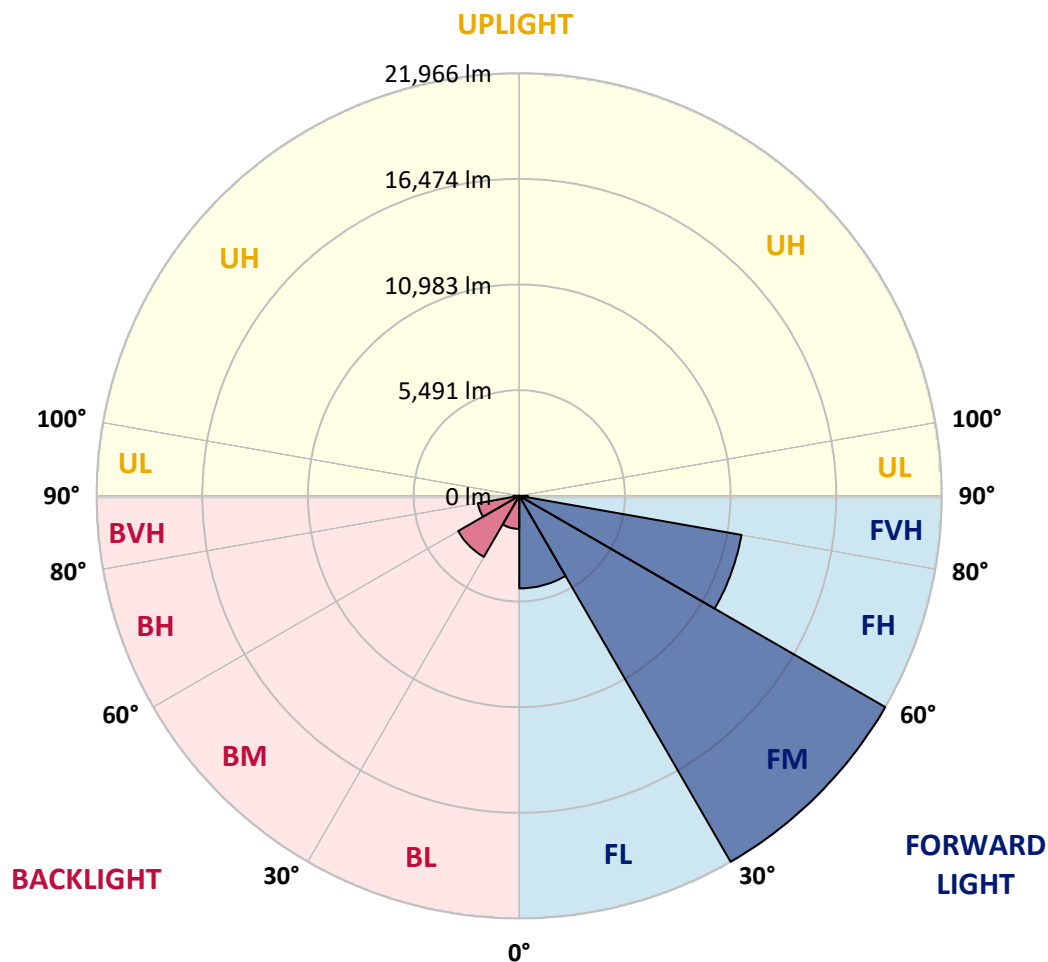
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4809.1	10.3			
FM	(30°-60°)	21965.6	46.9			
FH	(60°-80°)	11728.4	25.0			G4/12000
FVH	(80°-90°)	445.4	1.0			G3/500
BL	(0°-30°)	1718.6	3.7	B3/2500		
BM	(30°-60°)	3669.2	7.8	B3/5000		
BH	(60°-80°)	2183.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	308.8	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5
2.5°	5677.0	5591.2	5583.2	5457.6	5429.0	5189.0	5012.5	4828.1	4618.3	4576.9	4411.6
5°	7292.2	7284.3	7174.6	6969.5	6808.9	6398.8	5993.4	5564.2	5093.6	5017.3	4645.3
7.5°	8745.3	8732.5	8648.3	8427.3	8195.2	7691.3	7112.6	6454.4	5691.3	5578.5	4961.6
10°	9848.6	9843.8	9815.2	9653.0	9455.9	8972.6	8333.5	7435.3	6386.1	6231.9	5357.5
12.5°	10700.7	10710.2	10729.3	10672.1	10578.3	10166.5	9511.5	8475.0	7126.9	6974.3	5797.9
15°	11277.8	11306.4	11404.9	11486.0	11535.3	11282.5	10648.2	9538.6	7956.7	7773.9	6285.9
17.5°	11568.7	11600.5	11770.6	12015.4	12241.1	12215.7	11711.8	10552.8	8753.2	8576.8	6810.5
20°	11819.9	11843.7	12034.5	12328.6	12727.6	12904.1	12621.1	11528.9	9626.0	9416.1	7366.9
22.5°	12548.0	12578.2	12635.4	12802.3	13155.3	13479.6	13342.8	12452.6	10425.6	10230.1	7894.7
25°	13953.3	13989.9	13865.9	13724.4	13791.2	14016.9	14042.3	13295.2	11236.4	11015.4	8462.3
27.5°	15646.4	15698.9	15487.4	15123.4	14805.4	14718.0	14687.8	13985.1	12010.6	11754.7	9023.5
30°	17304.5	17395.1	17120.1	16648.0	16064.5	15654.4	15350.7	14660.8	12773.7	12528.9	9552.9
32.5°	18924.5	18887.9	18488.9	18027.9	17344.3	16830.8	16096.3	15385.7	13632.2	13350.8	10079.1
35°	20034.1	20046.9	19676.5	19129.6	18477.8	18083.5	17094.7	16167.9	14508.1	14249.0	10676.8
37.5°	20978.5	20919.6	20499.9	19989.6	19428.4	19259.9	18263.2	17029.5	15457.2	15174.3	11312.7
40°	21293.2	21224.9	20949.8	20582.6	20132.7	20118.4	19552.4	18005.6	16530.3	16250.5	12029.7
42.5°	21102.5	21015.0	20902.2	20802.0	20663.7	20727.3	20763.8	19150.2	17709.9	17396.7	12859.6
45°	20398.2	20266.3	20345.7	20563.5	20864.0	21223.3	21857.6	20417.3	19031.0	18768.7	13834.1
47.5°	19315.6	19196.3	19444.3	19910.1	20727.3	21636.6	22892.5	21816.3	20608.1	20347.3	15221.9
50°	17792.6	17827.6	18182.1	19029.4	20264.7	21827.4	24167.5	23668.3	22900.5	22657.2	17115.3
52.5°	15293.5	15299.8	16298.2	17689.3	19444.3	21728.8	24875.0	26035.5	26030.7	25736.6	18918.1
55°	12972.4	13113.9	13904.0	15752.9	18115.3	21334.6	25369.4	27186.5	28086.3	27741.3	20598.5
57.5°	10705.4	10788.1	11536.9	13393.7	16218.7	20283.7	25876.5	28568.0	30455.0	30237.2	22687.5
60°	8126.8	8254.0	9028.2	10743.6	13792.8	18419.0	25924.2	30009.9	33286.4	33067.0	25019.6
62.5°	5274.8	5494.2	6219.1	7826.4	10858.1	15737.0	24817.7	30952.6	35969.9	35892.0	27089.5
65°	3031.7	3197.0	3701.0	4941.0	7490.9	12369.9	22186.7	30590.1	37621.7	37577.1	27863.7
66°	2476.8	2580.2	2966.5	3861.5	6181.0	10862.8	20657.3	29825.5	37785.4	37787.0	27774.7
67.5°	1980.8	2026.9	2200.2	2764.6	4561.0	8610.1	17924.5	28138.7	37581.9	37637.6	27200.8
70°	1639.0	1662.9	1716.9	1853.7	2489.6	5192.2	12722.8	23755.8	35539.1	35582.0	24960.8
72.5°	1470.5	1484.8	1505.5	1524.6	1756.7	2901.3	7770.7	19004.0	31159.3	31214.9	21547.6
75°	1332.2	1340.2	1337.0	1338.6	1473.7	1848.9	4015.7	14188.6	25194.5	25083.2	16506.5
77.5°	1170.1	1178.0	1162.1	1165.3	1303.6	1421.2	1998.3	9932.8	17002.5	16217.1	9300.1
80°	988.8	995.2	988.8	1000.0	1135.1	1073.1	1162.1	5588.0	7518.0	7111.0	3306.7
82.5°	747.2	774.2	793.3	837.8	934.8	763.1	777.4	2176.4	2289.3	2179.6	1014.3
85°	327.5	399.0	597.7	640.7	702.7	457.9	510.3	887.1	931.6	903.0	368.8
87.5°	85.8	93.8	295.7	372.0	389.5	206.7	265.5	403.8	426.1	403.8	122.4
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°	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5
2.5°	4324.1	4246.2	4106.3	3982.3	3888.6	3825.0	3761.4	3729.6	3710.5	3691.4	3694.6
5°	4462.5	4305.1	4065.0	3894.9	3799.5	3739.1	3707.3	3694.6	3686.7	3667.6	3667.6
7.5°	4670.7	4448.1	4117.5	3942.6	3867.9	3821.8	3802.7	3796.3	3786.8	3764.6	3767.7
10°	4933.0	4621.4	4227.2	4057.1	3988.7	3937.8	3910.8	3901.3	3883.8	3858.3	3861.5
12.5°	5241.4	4836.0	4371.8	4193.8	4111.1	4042.8	3998.2	3971.2	3941.0	3907.6	3909.2
15°	5578.5	5069.7	4527.6	4316.2	4203.3	4107.9	4036.4	3990.3	3942.6	3901.3	3899.7
17.5°	5920.3	5295.5	4646.9	4383.0	4230.3	4104.8	4007.8	3936.2	3877.4	3826.6	3821.8
20°	6289.1	5499.0	4713.6	4376.6	4179.5	4030.0	3901.3	3812.2	3747.1	3696.2	3688.2
22.5°	6664.3	5689.7	4724.8	4311.4	4066.6	3883.8	3748.7	3650.1	3583.3	3530.9	3511.8
25°	7007.7	5837.6	4678.7	4185.8	3909.2	3712.1	3580.1	3480.0	3425.9	3363.9	3344.9
27.5°	7320.8	5940.9	4586.5	4025.3	3732.8	3538.8	3414.8	3329.0	3270.1	3222.4	3206.5
30°	7602.2	5996.6	4435.4	3834.5	3551.5	3375.1	3270.1	3211.3	3160.4	3100.0	3088.9
32.5°	7869.3	5996.6	4241.5	3626.2	3371.9	3230.4	3168.4	3131.8	3074.6	3015.8	2999.9
35°	8136.4	5960.0	4012.6	3408.4	3206.5	3127.1	3123.9	3081.0	2993.5	2914.0	2893.4
37.5°	8417.8	5885.3	3755.0	3205.0	3071.4	3081.0	3108.0	3012.6	2888.6	2775.7	2745.5
40°	8735.7	5782.0	3487.9	3028.5	2958.5	3060.3	3065.1	2914.0	2672.4	2569.1	2542.0
42.5°	9109.3	5678.6	3239.9	2872.7	2869.5	2998.3	2984.0	2701.0	2556.3	2503.9	2489.6
45°	9600.6	5619.8	3004.6	2724.8	2799.6	2898.1	2845.7	2583.4	2522.9	2492.7	2480.0
47.5°	10374.8	5650.0	2788.4	2607.2	2729.6	2798.0	2588.1	2535.7	2492.7	2456.2	2443.5
50°	11344.5	5632.5	2613.6	2526.1	2650.1	2693.1	2472.1	2473.7	2451.4	2410.1	2391.0
52.5°	12074.2	5495.8	2500.7	2480.0	2580.2	2507.1	2398.9	2413.3	2402.1	2341.7	2321.0
55°	12778.5	5378.2	2443.5	2462.5	2529.3	2274.9	2313.1	2348.1	2336.9	2278.1	2268.6
57.5°	13654.4	5355.9	2408.5	2467.3	2486.4	2158.9	2230.4	2276.5	2268.6	2243.2	2238.4
60°	14727.5	5362.3	2376.7	2475.3	2438.7	2073.0	2152.5	2211.4	2216.1	2211.4	2208.2
62.5°	15317.3	5189.0	2297.2	2453.0	2354.4	1998.3	2071.5	2157.3	2158.9	2168.4	2166.8
65°	14816.6	4670.7	2149.4	2375.1	2212.9	1936.3	2001.5	2095.3	2071.5	2114.4	2114.4
66°	14330.1	4371.8	2076.2	2324.2	2152.5	1912.5	1979.3	2063.5	2033.3	2092.1	2092.1
67.5°	13336.5	3867.9	1944.3	2216.1	2066.7	1879.1	1953.8	2011.0	1969.7	2057.1	2050.8
70°	11521.0	2991.9	1678.8	1971.3	1925.2	1829.8	1918.8	1906.1	1845.7	1979.3	1953.8
72.5°	9713.4	2273.4	1348.1	1650.2	1710.6	1767.8	1869.6	1772.6	1696.3	1790.1	1734.4
75°	7537.0	1709.0	1065.1	1282.9	1445.1	1670.8	1810.7	1618.4	1508.7	1499.1	1468.9
77.5°	4074.6	1173.2	844.2	979.3	1147.8	1550.0	1771.0	1453.0	1287.7	1249.6	1225.7
80°	1613.6	763.1	613.6	742.4	802.8	1375.1	1675.6	1260.7	1062.0	1023.8	987.2
82.5°	666.1	451.5	395.9	497.6	523.0	1176.4	1503.9	1033.3	820.3	1135.1	1205.0
85°	286.2	248.0	235.3	257.5	295.7	825.1	1197.1	788.5	885.5	790.1	628.0
87.5°	85.8	104.9	100.2	98.6	108.1	197.1	637.5	438.8	650.2	246.4	184.4
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)