

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: P317943

Luminaire Tested: **GAN-SA9D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317943
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-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 56359 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

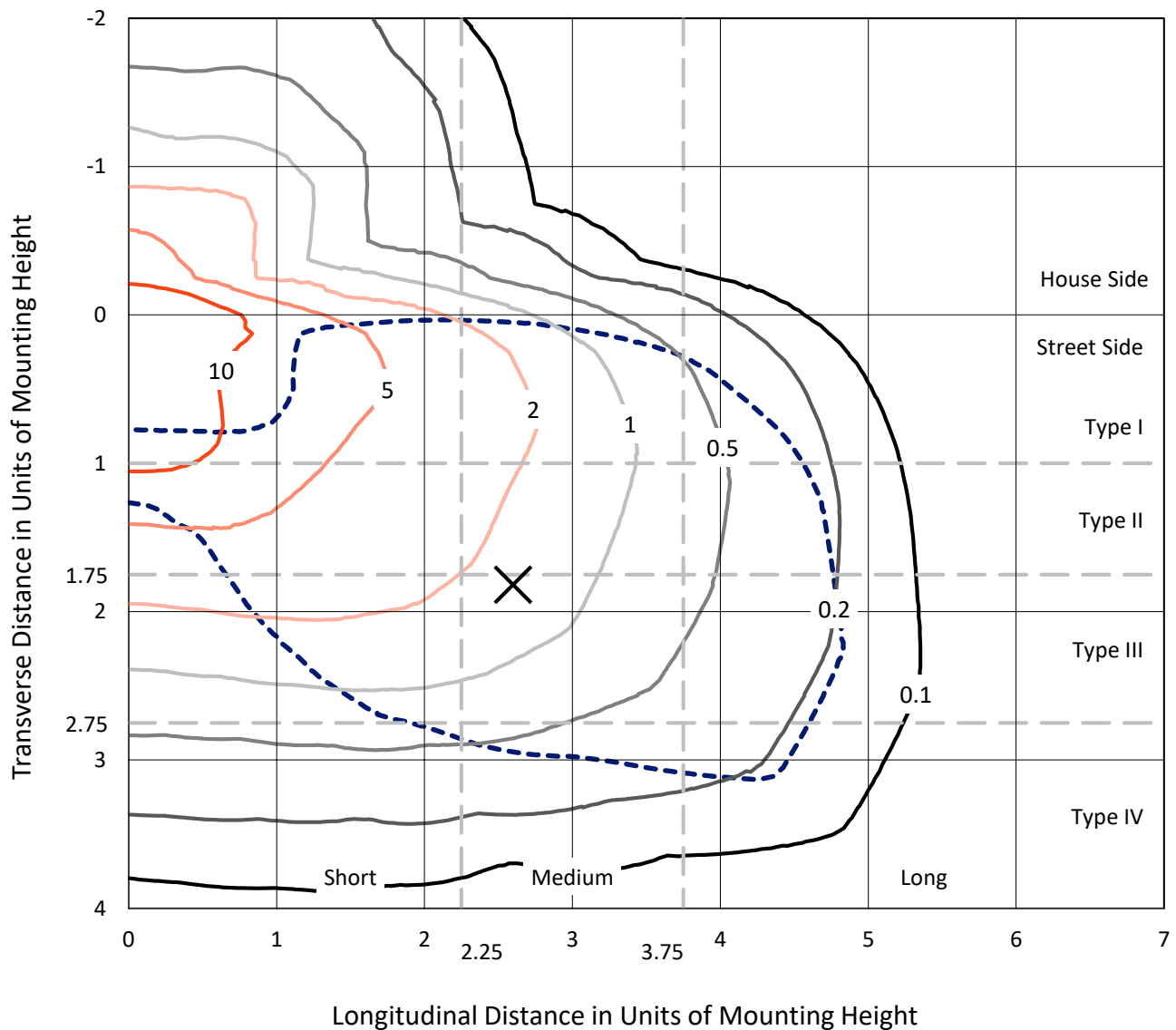
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

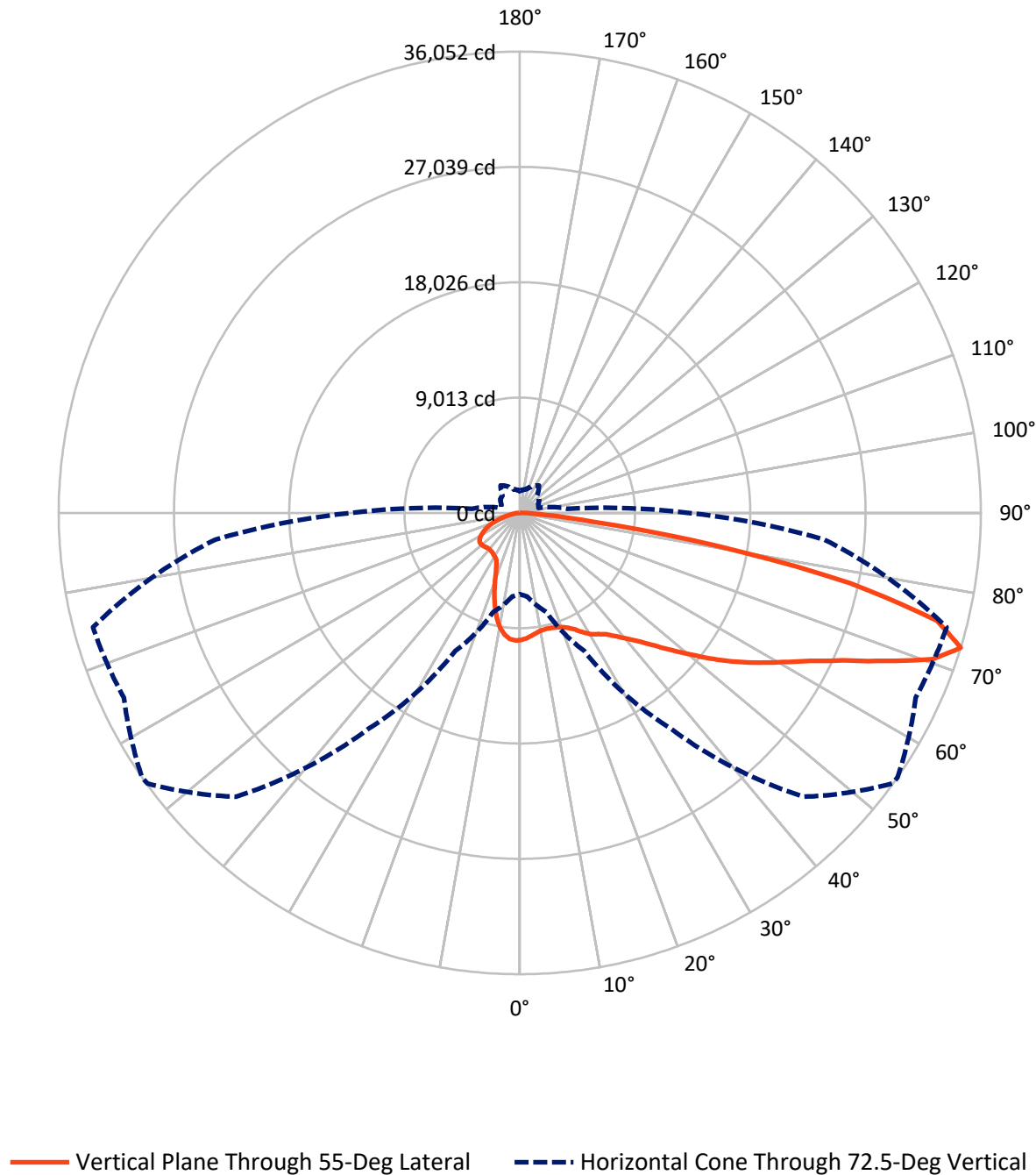
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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	10475.3	0.0	10475.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	45883.7	0.0	45883.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	56359.0	0.0	56359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.5	1.6
10°-20°	2394.8	4.2
20°-30°	3948.4	7.0
30°-40°	5840.7	10.4
40°-50°	8152.4	14.5
50°-60°	10614.7	18.8
60°-70°	13045.1	23.1
70°-80°	10225.8	18.1
80°-90°	1237.5	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°	56359.0	100.0
0°-180°	56359.0	100.0

Coefficient of Utilization



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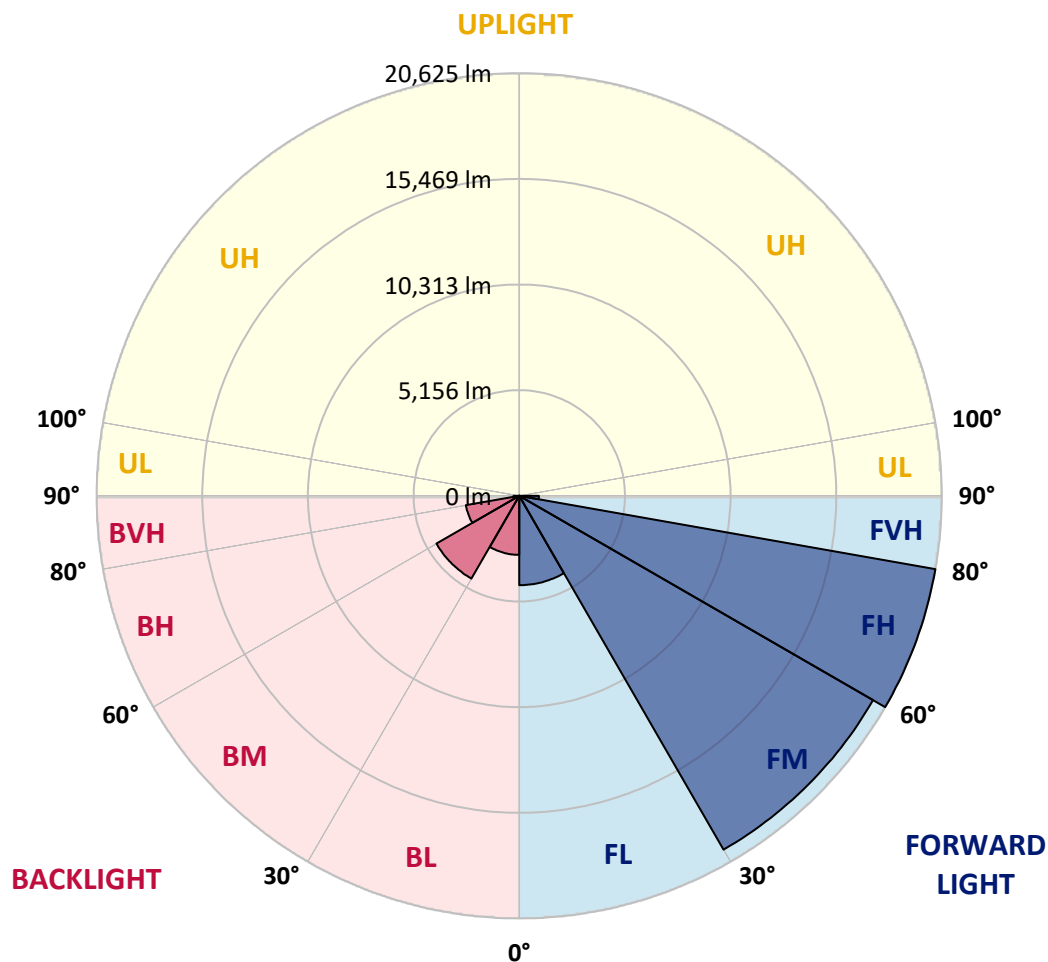
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4360.5	7.7			
FM	(30°-60°)	19940.9	35.4			
FH	(60°-80°)	20625.5	36.6			G5
FVH	(80°-90°)	956.8	1.7			G5
BL	(0°-30°)	2882.2	5.1	B4/5000		
BM	(30°-60°)	4666.9	8.3	B3/5000		
BH	(60°-80°)	2645.5	4.7	B4/5000		G4/5000
BVH	(80°-90°)	280.7	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°	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5
2.5°	9616.9	9594.1	9622.6	9662.6	9706.4	9765.4	9799.6	9814.9	9873.9	9896.7	9946.2
5°	9171.5	9160.0	9207.6	9276.2	9373.2	9510.3	9620.7	9641.7	9797.7	9908.2	10009.0
7.5°	8847.9	8847.9	8903.1	8984.9	9093.4	9278.1	9434.2	9462.7	9727.3	9965.3	10151.8
10°	8590.9	8600.4	8665.1	8762.2	8889.7	9085.8	9293.3	9325.7	9708.3	10098.5	10395.5
12.5°	8419.6	8442.4	8501.4	8589.0	8747.0	8984.9	9247.6	9291.4	9748.3	10288.9	10688.6
15°	8528.1	8566.1	8571.8	8608.0	8695.6	8954.5	9274.3	9319.9	9833.9	10483.0	11021.8
17.5°	9004.0	9017.3	8958.3	8882.1	8840.2	9005.9	9354.2	9401.8	9936.7	10675.3	11341.6
20°	9727.3	9719.7	9592.2	9386.6	9173.4	9200.0	9485.6	9535.1	10075.7	10844.7	11661.4
22.5°	10641.0	10614.4	10418.3	10039.5	9675.9	9523.6	9715.9	9757.8	10285.1	11086.5	12004.0
25°	11748.9	11689.9	11431.0	10922.8	10387.9	9995.7	10062.3	10102.3	10589.6	11356.8	12318.1
27.5°	12917.7	12858.7	12529.4	11914.5	11202.6	10591.5	10540.1	10574.4	10936.1	11556.7	12550.3
30°	14139.8	14077.0	13776.2	13087.1	12066.8	11208.3	10985.6	10998.9	11179.7	11665.2	12740.7
32.5°	15367.6	15308.6	14971.7	14172.2	13005.3	11870.7	11307.3	11290.2	11326.3	11777.5	12955.8
35°	16612.6	16635.4	16241.4	15356.2	14044.6	12607.4	11688.0	11651.8	11571.9	12007.8	13260.4
37.5°	17945.1	17929.9	17419.7	16494.6	15131.6	13406.9	12234.3	12228.6	11952.6	12443.7	13738.2
40°	18836.0	18845.5	18535.2	17659.5	16230.0	14292.1	12934.9	12921.5	12559.8	13096.7	14364.4
42.5°	19184.3	19247.1	19327.1	18771.2	17379.7	15318.1	13770.5	13751.5	13406.9	14033.2	15101.1
45°	19209.1	19334.7	19829.6	19759.2	18544.7	16492.7	14838.4	14785.1	14537.7	15278.2	15980.6
47.5°	18995.9	19125.3	19947.7	20347.4	19586.0	17731.9	16087.2	16045.3	15832.1	16835.3	16932.4
50°	18529.5	18653.2	19704.0	20634.8	20442.6	18923.5	17526.3	17415.9	17301.7	18634.2	18021.2
52.5°	17655.7	17893.7	19378.5	20703.4	20954.7	19981.9	19039.6	18967.3	19030.1	20532.1	19112.0
55°	15586.5	15853.0	18539.0	20646.3	21333.5	20870.9	20553.0	20549.2	20874.7	22523.2	20282.7
57.5°	14427.3	14615.7	16829.6	20549.2	21782.7	21754.2	22051.1	22087.3	22721.2	24691.4	21508.6
60°	13772.4	13970.4	15963.5	20189.4	22479.4	22896.3	23579.7	23652.0	24598.1	27091.8	22983.9
62.5°	13176.6	13393.6	15426.6	19456.5	23299.9	24529.6	25410.9	25475.7	26585.5	29558.9	24409.7
65°	12158.2	12403.8	14640.5	18974.9	24046.1	26659.7	27739.0	27782.8	28867.8	32143.9	25500.4
67.5°	10719.1	10943.7	13157.6	17910.8	24598.1	29246.7	30834.3	30859.0	31131.2	33969.5	26058.2
70°	9038.2	9123.9	11044.6	15714.1	23945.2	31666.1	34226.4	34232.1	33194.7	35138.3	25966.8
72.5°	6350.4	6552.1	8017.9	11895.5	20577.7	31371.1	35987.3	36052.0	34154.1	34548.1	23891.9
75°	3894.7	4107.9	5029.3	7208.9	13054.8	24672.4	33249.9	33699.1	32355.2	30803.8	19517.4
77.5°	2604.1	2684.1	3281.8	4203.1	5914.4	14195.0	25563.2	26408.4	26878.6	22464.2	12481.8
80°	1452.4	1604.7	2175.8	2611.7	2630.8	5640.3	15327.7	15525.6	14954.6	8944.9	3851.0
82.5°	769.0	852.8	1452.4	1534.3	1435.3	1888.4	5712.7	5718.4	4778.0	2398.5	1144.1
85°	595.8	666.3	995.6	936.6	732.9	837.6	1884.5	1987.3	1625.7	982.2	373.1
87.5°	297.0	369.3	675.8	593.9	287.4	239.9	673.9	719.6	641.5	384.5	135.2
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°	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5	9940.5
2.5°	9965.3	9982.4	10003.3	9980.5	9972.9	9942.4	9891.0	9879.6	9853.0	9854.9	9870.1
5°	10052.8	10081.4	10070.0	9982.4	9877.7	9731.1	9578.8	9449.4	9363.7	9358.0	9352.3
7.5°	10220.3	10239.4	10149.9	9900.5	9607.4	9268.5	8948.7	8668.9	8499.5	8457.6	8448.1
10°	10483.0	10479.2	10233.7	9731.1	9146.7	8541.4	8027.4	7639.1	7412.6	7345.9	7328.8
12.5°	10776.2	10732.4	10262.2	9422.7	8495.7	7656.2	7005.2	6573.1	6337.0	6260.9	6241.9
15°	11078.9	10970.4	10191.8	8962.1	7696.2	6702.5	6019.1	5619.4	5491.8	5450.0	5442.3
17.5°	11360.6	11151.2	9990.0	8337.7	6784.4	5752.6	5219.6	5059.7	5090.2	5145.4	5147.3
20°	11636.6	11273.0	9666.4	7549.6	5823.1	4970.3	4789.4	4907.4	5052.1	5164.4	5179.7
22.5°	11908.8	11358.7	9249.5	6639.7	4962.6	4530.5	4658.1	4873.2	5038.8	5160.6	5181.6
25°	12137.3	11379.6	8674.6	5668.9	4364.9	4364.9	4595.3	4798.9	4962.6	5082.6	5103.5
27.5°	12221.0	11238.8	7863.7	4770.4	4064.2	4288.8	4507.7	4677.1	4816.1	4943.6	4966.5
30°	12253.4	10978.0	6927.1	4048.9	3940.4	4206.9	4389.7	4534.3	4665.7	4785.6	4806.5
32.5°	12259.1	10663.9	5933.5	3639.7	3854.8	4121.3	4243.1	4370.6	4511.5	4559.1	4566.7
35°	12295.2	10292.7	4886.5	3430.3	3774.8	4041.3	4138.4	4229.8	4001.3	4018.5	4033.7
37.5°	12399.9	9925.3	4010.9	3312.2	3723.4	3999.4	4115.5	3784.3	3605.4	3563.5	3557.8
40°	12596.0	9533.1	3361.7	3217.1	3704.4	4020.4	3969.0	3533.1	3224.7	2994.3	2960.1
42.5°	12868.2	9110.6	2946.7	3154.2	3717.7	4121.3	3765.3	3291.3	2779.2	2630.8	2611.7
45°	13174.7	8667.0	2722.1	3110.5	3763.4	4199.3	3723.4	2969.6	2571.7	2459.4	2449.9
47.5°	13471.7	8124.5	2606.0	3091.4	3826.2	4136.5	3546.4	2870.6	2472.8	2413.7	2419.5
50°	13812.4	7635.3	2535.6	3070.5	3881.4	4096.5	3346.5	2819.2	2434.7	2507.0	2583.2
52.5°	14099.8	7128.9	2472.8	3028.6	3902.3	4026.1	3295.1	2828.7	2434.7	2573.6	2646.0
55°	14440.6	6746.3	2400.4	2941.0	3862.4	3826.2	3258.9	2885.8	2463.2	2375.7	2383.3
57.5°	14880.3	6620.7	2320.5	2804.0	3729.1	3535.0	3241.8	2941.0	2446.1	2390.9	2409.9
60°	15489.5	6753.9	2288.1	2625.0	3521.6	3306.5	3243.7	2912.5	2326.2	2231.0	2232.9
62.5°	16070.1	6902.4	2286.2	2512.7	3266.5	3102.8	3199.9	2819.2	2265.3	2210.1	2231.0
65°	16260.4	6752.0	2194.8	2387.1	2979.1	2859.2	3120.0	2720.2	2219.6	2135.8	2132.0
67.5°	16005.3	6285.6	2010.2	2183.4	2649.8	2575.5	3015.3	2602.2	2147.2	2078.7	2067.3
70°	15247.7	5244.4	1781.8	1915.0	2274.8	2255.7	2849.7	2465.1	2050.2	1991.1	1941.7
72.5°	13209.0	3736.7	1501.9	1593.3	1852.2	1913.1	2621.2	2286.2	1913.1	1785.6	1709.4
75°	10848.5	2765.9	1233.5	1252.6	1406.7	1572.4	2307.1	2076.8	1751.3	1534.3	1475.3
77.5°	6643.5	1692.3	982.2	989.9	1008.9	1254.5	1899.8	1842.7	1545.7	1279.2	1237.3
80°	2151.0	923.2	710.0	746.2	689.1	919.4	1469.6	1568.6	1326.8	1069.8	1024.1
82.5°	818.5	538.7	479.7	504.4	477.8	616.8	1071.7	1256.4	1086.9	879.5	715.7
85°	395.9	304.6	283.6	317.9	295.1	316.0	685.3	925.1	824.3	573.0	533.0
87.5°	140.9	135.2	108.5	146.6	125.6	112.3	209.4	466.4	544.4	394.0	352.2
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)