

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: P320933

Luminaire Tested: **GAN-SA9C-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59078 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

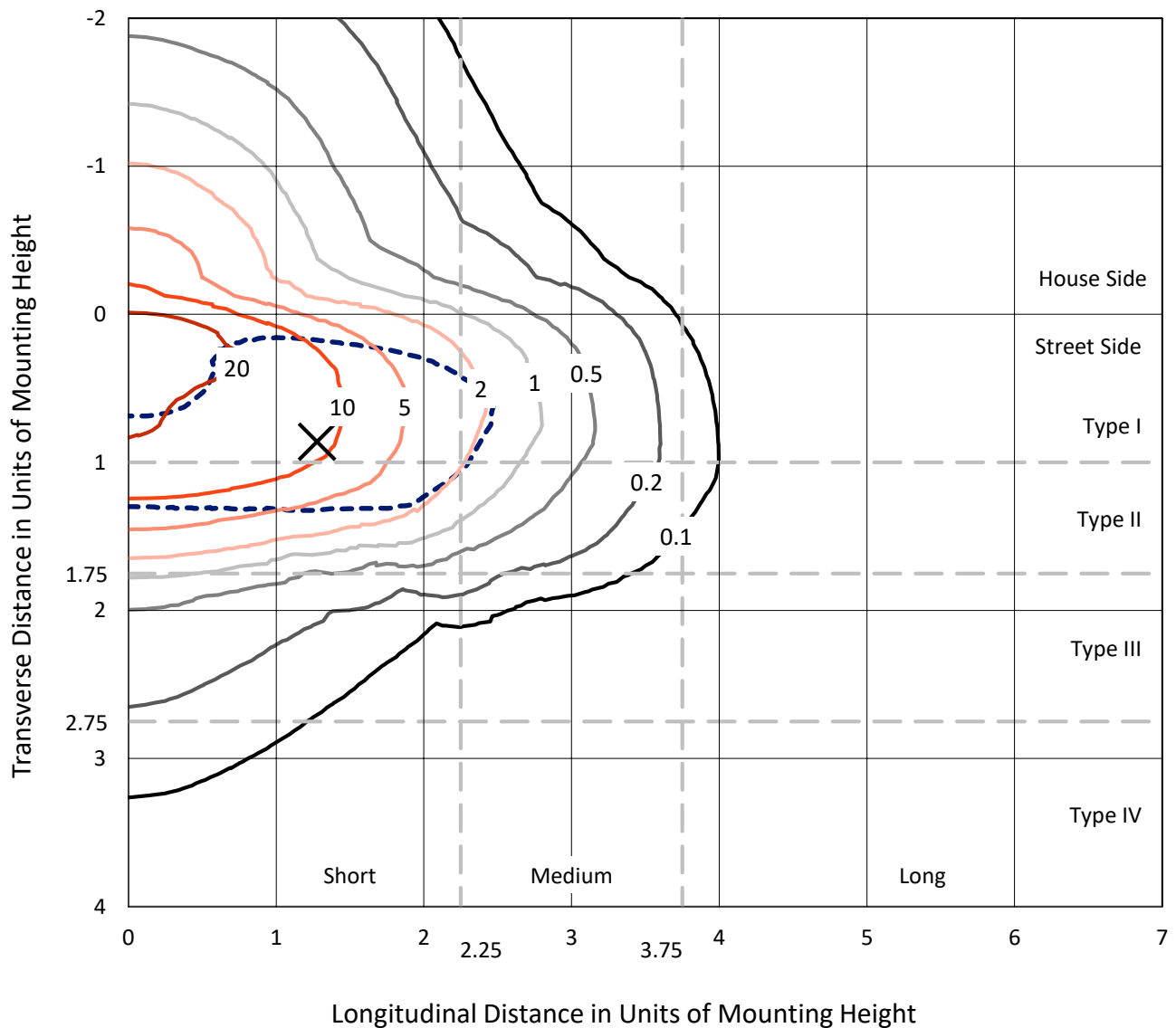
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

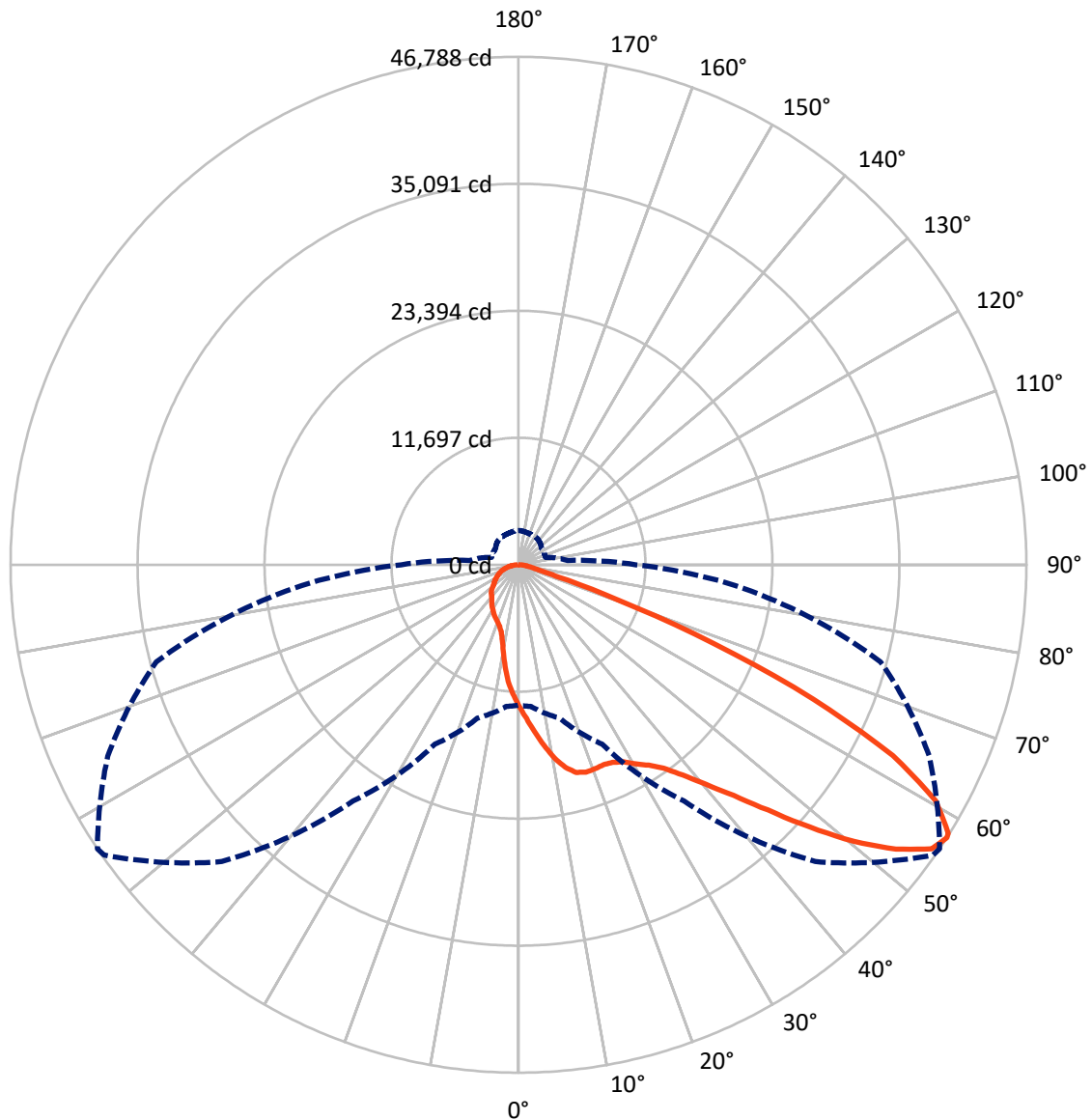
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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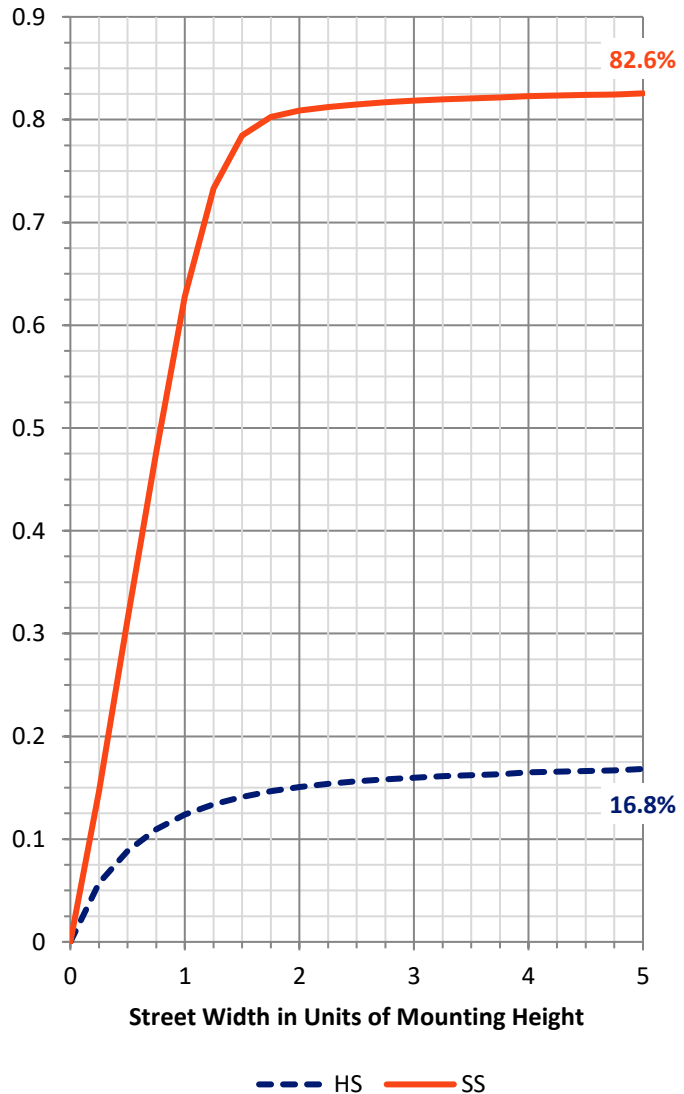
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10183.8	0.0	10183.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	48894.2	0.0	48894.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	59078.0	0.0	59078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1251.7	2.1
10°-20°	3538.9	6.0
20°-30°	5764.2	9.8
30°-40°	8616.8	14.6
40°-50°	13069.9	22.1
50°-60°	14649.0	24.8
60°-70°	8652.3	14.6
70°-80°	2834.8	4.8
80°-90°	700.4	1.2
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°	59078.0	100.0
0°-180°	59078.0	100.0

Coefficient of Utilization

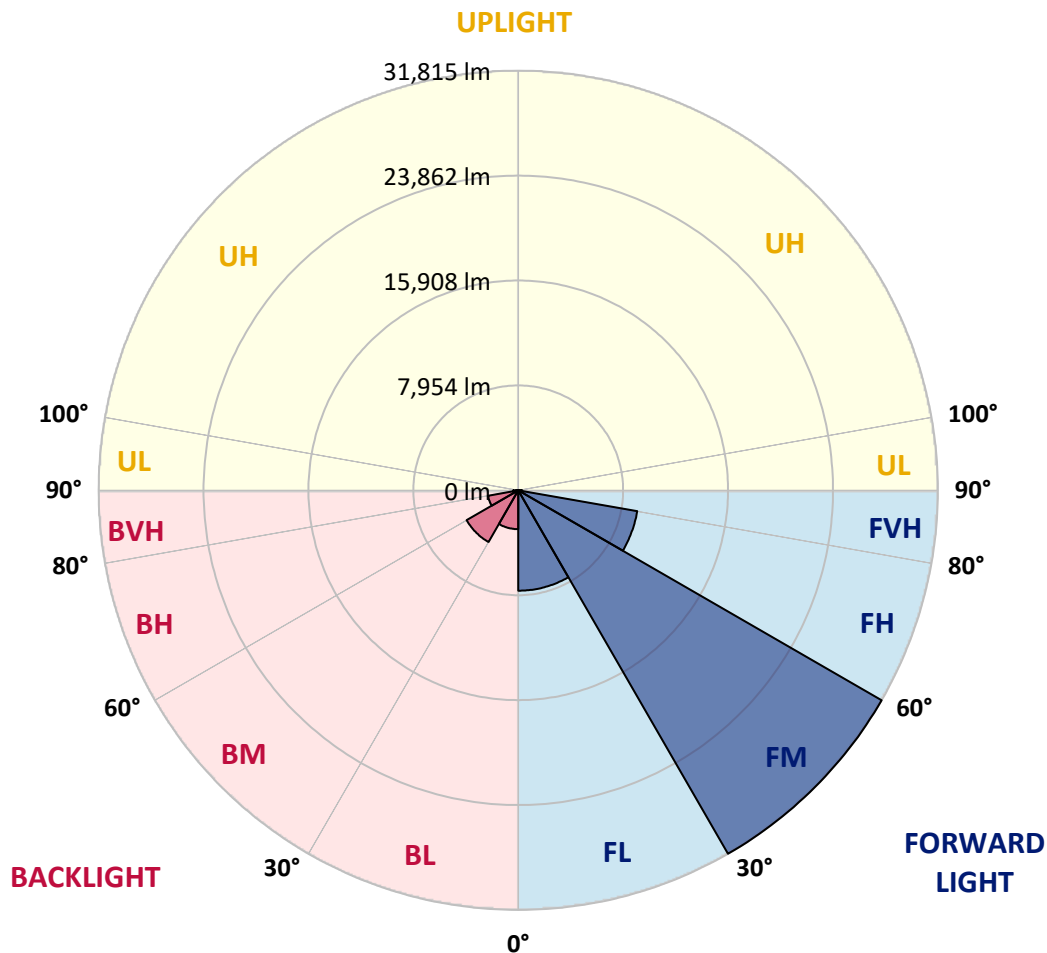


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7610.1	12.9			
FM (30°-60°)	31815.5	53.9			
FH (60°-80°)	9160.2	15.5			G4/12000
FVH (80°-90°)	308.4	0.5			G3/500
BL (0°-30°)	2944.7	5.0	B4/5000		
BM (30°-60°)	4520.2	7.7	B3/5000		
BH (60°-80°)	2326.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	392.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6
2.5°	15046.6	15184.6	15123.7	14912.6	14750.1	14520.7	14264.9	14187.7	13917.7	13615.2	13251.8
5°	17428.1	17359.1	17259.6	16930.7	16583.5	16179.5	15537.9	15436.4	14835.4	14151.2	13428.4
7.5°	18784.3	18778.2	18719.4	18526.5	18209.8	17681.9	16908.3	16788.5	15881.0	14780.6	13659.9
10°	18587.4	18573.2	18670.6	18871.6	18967.1	18857.4	18205.7	18085.9	16971.3	15477.0	13927.9
12.5°	17468.7	17476.8	17633.2	18055.5	18630.0	19320.3	19214.8	19155.9	18102.2	16264.7	14252.7
15°	16597.7	16616.0	16739.8	17107.3	17785.4	19038.1	19827.9	19848.2	19196.5	17133.7	14632.4
17.5°	16216.0	16254.6	16311.4	16569.3	17190.5	18475.7	19974.1	20083.7	20154.8	18035.2	14997.8
20°	16337.8	16374.4	16390.6	16555.1	17064.7	18134.6	19872.6	20069.5	20889.8	18883.8	15363.3
22.5°	16884.0	16906.3	16916.5	16959.1	17355.0	18232.1	19805.6	20012.7	21421.7	19645.2	15639.4
25°	17789.5	17773.2	17708.3	17653.5	17919.4	18617.8	19959.9	20156.8	21854.1	20335.5	15820.1
27.5°	18873.7	18853.4	18727.5	18577.2	18729.5	19218.8	20404.5	20560.8	22241.9	20981.1	15911.5
30°	20175.1	20122.3	19884.8	19706.1	19765.0	20120.3	21137.5	21279.6	22840.9	21714.1	16000.8
32.5°	21679.5	21622.7	21279.6	20983.1	20983.1	21279.6	21892.7	22010.5	23348.4	22542.4	16144.9
35°	23563.7	23492.6	23045.9	22548.5	22408.4	22558.7	22922.1	23005.3	24262.1	23586.0	16406.9
37.5°	25784.8	25689.4	25110.7	24444.8	24138.2	24130.1	24392.0	24562.6	25721.9	24956.4	16851.5
40°	28012.0	27945.0	27439.5	26915.7	26314.7	26121.8	26525.9	26578.7	27630.3	26657.8	17420.0
42.5°	29733.7	29721.6	29628.2	29697.2	29082.0	28692.2	29008.9	29051.6	29961.1	28499.3	18025.0
45°	30643.3	30663.6	31116.4	32119.3	32346.7	32062.5	32218.8	32231.0	32624.9	30357.0	18579.3
47.5°	29914.4	30020.0	31165.1	33408.6	35270.4	36214.5	35954.6	36104.8	35207.4	31952.9	19013.8
50°	27074.0	27204.0	29153.1	32834.0	36634.7	40232.4	40096.4	40061.9	37290.5	33122.3	19249.3
52.5°	23555.5	23657.1	25265.0	29847.4	35633.8	42453.6	43702.2	43523.5	39142.1	33997.4	19293.9
55°	18197.6	18355.9	19896.9	23886.5	31585.4	41604.9	46353.8	46193.4	40829.3	34456.2	19241.2
57°	12937.1	13103.6	14634.4	18230.1	26570.5	38667.1	46617.7	46788.3	41740.9	34533.4	19300.0
57.5°	11544.3	11714.8	13231.5	16723.6	25007.2	37605.2	46390.3	46674.6	41905.4	34521.2	19332.5
60°	5812.7	5877.7	6844.1	9335.3	15807.9	30401.7	43424.0	44157.0	42053.6	33924.3	19472.6
62.5°	3613.9	3567.2	3536.8	4300.2	7690.8	20160.9	37302.7	38713.8	39217.3	32478.7	19133.5
65°	3177.4	3090.1	2755.1	2694.2	3396.7	9792.1	28091.2	29847.4	33156.8	30200.7	18325.5
67.5°	2984.5	2899.3	2521.6	2294.2	2296.3	3881.9	17440.3	19417.8	25829.5	26349.2	16419.0
70°	2785.6	2708.4	2355.1	2087.1	1955.2	2150.1	8023.7	9524.1	16837.3	20711.1	13722.8
72.5°	2529.8	2477.0	2142.0	1865.8	1725.8	1610.0	3071.8	3628.1	9747.5	13909.6	9530.2
75°	2261.8	2213.0	1926.8	1662.8	1492.3	1266.9	1729.8	1863.8	4951.9	7116.2	4692.0
77.5°	1967.4	1938.9	1713.6	1469.9	1333.9	1049.7	1224.3	1289.2	2123.7	3051.5	2353.1
80°	1565.4	1620.2	1498.4	1309.5	1183.7	840.5	866.9	909.6	1236.5	1490.2	1335.9
82.5°	1019.2	1114.6	1173.5	1063.9	974.5	661.9	623.3	641.6	806.0	909.6	580.7
85°	424.3	477.1	771.5	696.4	647.7	483.2	418.2	426.4	499.5	517.7	237.5
87.5°	188.8	201.0	339.1	318.8	274.1	166.5	178.7	194.9	266.0	251.8	91.4
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°	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6	13103.6
2.5°	13115.7	12945.2	12652.8	12330.0	12066.1	11854.9	11641.7	11495.6	11325.0	11233.6	11187.0
5°	13125.9	12790.9	12175.7	11544.3	10979.9	10464.2	9972.8	9595.2	9241.9	9051.1	8998.3
7.5°	13168.5	12665.0	11670.2	10630.6	9627.7	8712.0	8005.5	7562.9	7244.1	7102.0	7061.4
10°	13203.0	12516.8	11044.8	9505.9	8141.5	7213.7	6665.5	6417.8	6308.1	6289.9	6271.6
12.5°	13284.3	12364.5	10387.0	8332.3	6986.3	6344.7	6153.8	6137.6	6168.1	6212.7	6212.7
15°	13412.2	12214.3	9635.8	7325.3	6251.3	6025.9	6064.5	6153.8	6237.1	6306.1	6316.3
17.5°	13505.6	12029.5	8827.7	6519.3	5859.4	5920.4	6058.4	6184.3	6269.6	6336.6	6342.7
20°	13572.6	11743.3	7964.9	5904.1	5634.1	5822.9	5995.5	6107.1	6166.0	6233.0	6243.2
22.5°	13538.0	11359.5	7199.4	5463.5	5451.4	5680.8	5845.2	5979.2	5934.6	5869.6	5912.2
25°	13371.6	10831.6	6411.7	5134.6	5258.5	5489.9	5693.0	5603.6	5453.4	5425.0	5441.2
27.5°	13075.1	10157.6	5682.8	4830.1	5035.1	5313.3	5301.1	5211.8	5159.0	5122.4	5144.8
30°	12756.4	9426.7	5045.3	4564.1	4787.4	5016.9	4970.2	4968.1	4915.4	4856.5	4884.9
32.5°	12441.7	8691.7	4539.8	4344.8	4600.7	4631.1	4732.6	4763.1	4659.5	4535.7	4527.6
35°	12167.6	7997.4	4156.0	4145.9	4375.3	4379.4	4527.6	4484.9	4227.1	4099.2	4099.2
37.5°	11962.5	7305.0	3863.7	3967.2	4078.9	4184.4	4259.6	4082.9	4040.3	3969.2	3967.2
40°	11873.2	6695.9	3680.9	3831.2	3869.8	4003.8	3810.9	3879.9	3900.2	3863.7	3863.7
42.5°	11779.8	6166.0	3522.6	3727.6	3721.5	3703.3	3605.8	3695.1	3776.4	3778.4	3772.3
45°	11686.4	5709.2	3382.5	3506.3	3591.6	3394.7	3412.9	3508.4	3622.1	3662.7	3662.7
47.5°	11582.9	5347.8	3254.6	3272.8	3404.8	3272.8	3258.6	3331.7	3465.7	3530.7	3544.9
50°	11355.5	5023.0	3108.4	3067.8	3104.3	3149.0	3161.2	3195.7	3343.9	3447.4	3471.8
52.5°	11040.8	4732.6	2921.6	2879.0	2879.0	3047.5	3104.3	3114.5	3240.4	3364.2	3388.6
55°	10778.9	4547.9	2728.7	2720.6	2712.5	2939.9	3037.3	3053.6	3140.9	3238.3	3250.5
57°	10797.1	4533.7	2580.5	2588.6	2586.6	2830.2	2974.4	3008.9	3053.6	3136.8	3151.0
57.5°	10807.3	4543.8	2548.0	2552.1	2550.1	2799.8	2956.1	2994.7	3029.2	3116.5	3130.7
60°	10959.6	4570.2	2416.1	2371.4	2381.5	2637.4	2852.6	2901.3	2923.6	3039.4	3057.6
62.5°	10734.2	4452.4	2310.5	2202.9	2202.9	2466.8	2708.4	2785.6	2820.1	2976.4	3006.9
65°	10080.4	4121.5	2186.6	2012.0	2032.3	2296.3	2535.8	2661.7	2714.5	2909.4	2941.9
67.5°	9071.4	3737.8	2054.7	1841.5	1861.8	2117.6	2357.2	2493.2	2576.5	2836.3	2862.7
70°	7757.8	3268.8	1876.0	1660.8	1685.1	1922.7	2146.0	2300.3	2424.2	2767.3	2775.4
72.5°	5719.4	2680.0	1626.3	1461.8	1488.2	1695.3	1932.8	2111.5	2278.0	2594.7	2590.7
75°	3400.8	2095.3	1350.1	1260.8	1279.1	1472.0	1740.0	1957.2	2206.9	2527.7	2566.3
77.5°	2062.8	1577.5	1100.4	1055.8	1078.1	1275.0	1601.9	1833.4	2176.5	2383.6	2371.4
80°	1246.6	1126.8	879.1	850.7	873.0	1090.3	1482.1	1740.0	1902.4	2036.4	2036.4
82.5°	651.7	688.3	645.6	623.3	653.8	885.2	1348.1	1518.7	1681.1	1443.5	1348.1
85°	266.0	359.4	391.8	389.8	408.1	613.2	1163.4	1299.4	1084.2	1029.4	1053.7
87.5°	89.3	152.3	190.8	164.5	172.6	385.8	806.0	627.4	745.1	519.8	493.4
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)