

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: P317763

Luminaire Tested: **GAN-SA9B-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317763
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-SA9B-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52235 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

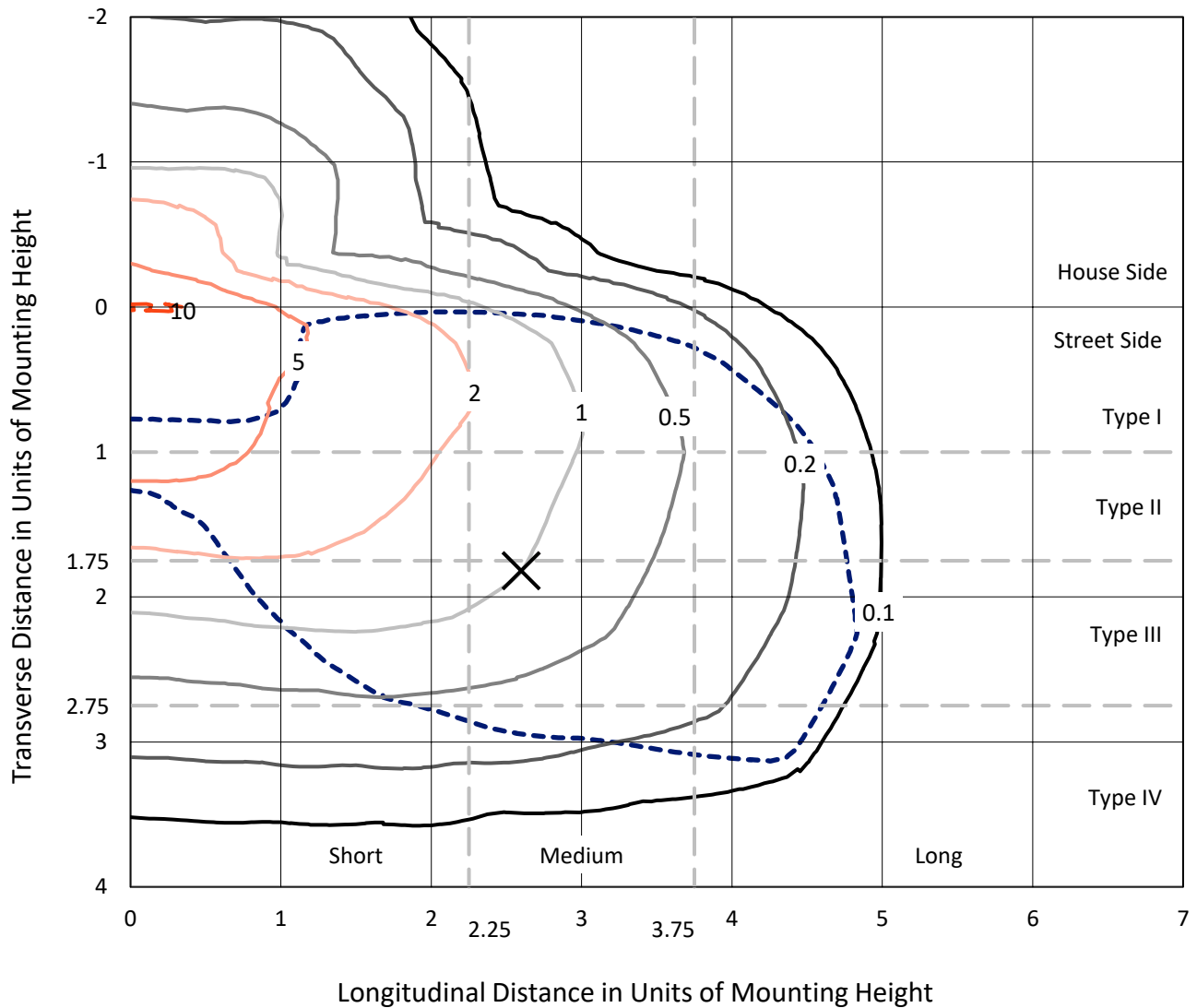
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

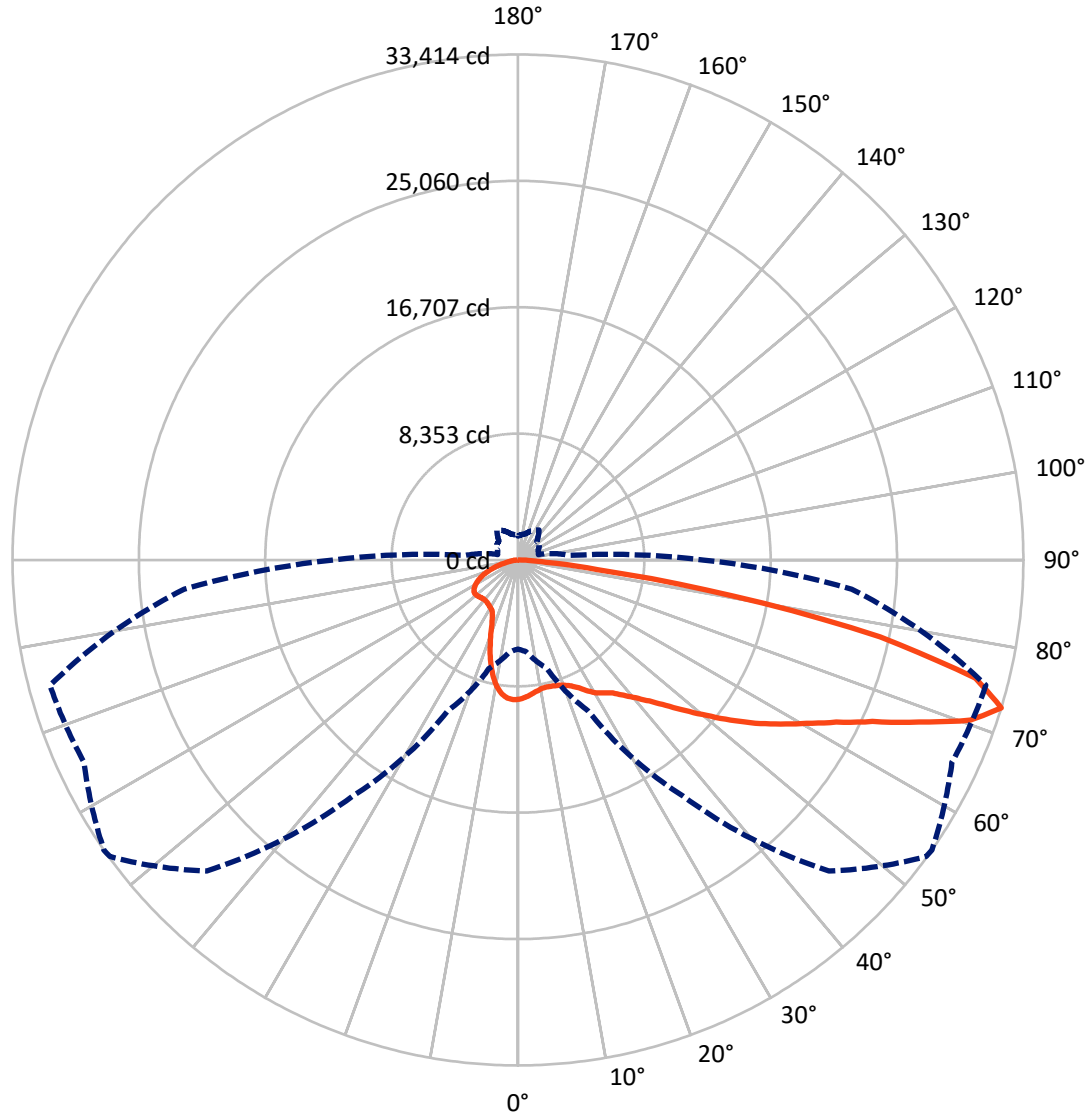
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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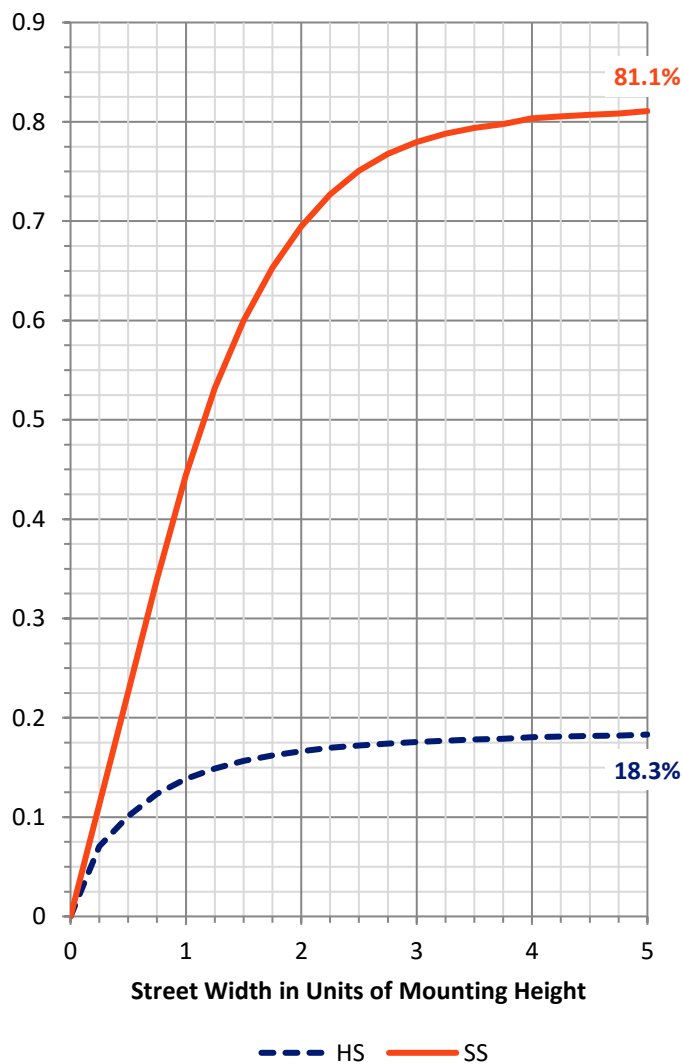
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9708.8	0.0	9708.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42526.2	0.0	42526.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	52235.0	0.0	52235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.7	1.6
10°-20°	2219.6	4.2
20°-30°	3659.5	7.0
30°-40°	5413.3	10.4
40°-50°	7555.9	14.5
50°-60°	9838.0	18.8
60°-70°	12090.6	23.1
70°-80°	9477.6	18.1
80°-90°	1146.9	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°	52235.0	100.0
0°-180°	52235.0	100.0

Coefficient of Utilization



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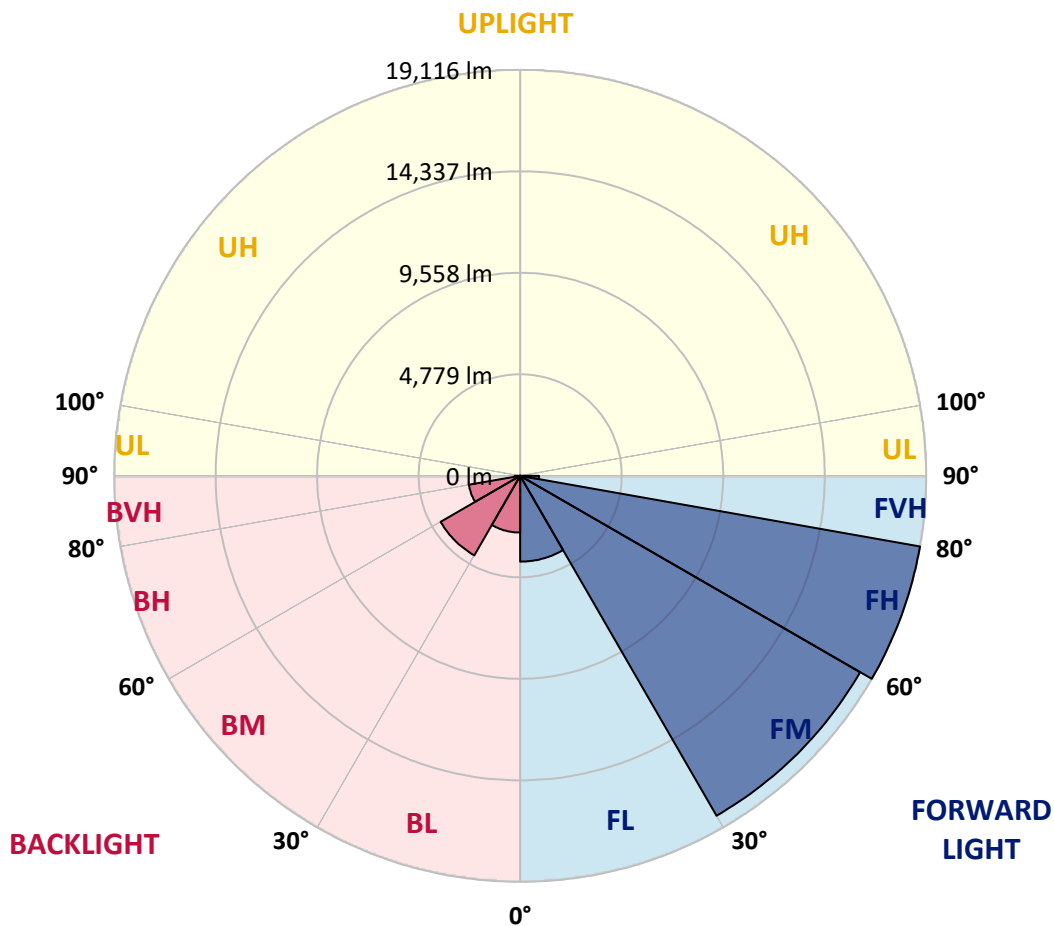
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4041.5	7.7			
FM (30°-60°)	18481.8	35.4			
FH (60°-80°)	19116.2	36.6			G5
FVH (80°-90°)	886.7	1.7			G5
BL (0°-30°)	2671.3	5.1	B4/5000		
BM (30°-60°)	4325.4	8.3	B3/5000		
BH (60°-80°)	2451.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	260.2	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°	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1
2.5°	8913.2	8892.0	8918.5	8955.5	8996.1	9050.8	9082.6	9096.7	9151.4	9172.6	9218.4
5°	8500.4	8489.8	8533.9	8597.4	8687.4	8814.4	8916.7	8936.1	9080.8	9183.1	9276.6
7.5°	8200.4	8200.4	8251.6	8327.5	8428.0	8599.2	8743.8	8770.3	9015.5	9236.1	9409.0
10°	7962.2	7971.1	8031.1	8121.0	8239.2	8421.0	8613.3	8643.3	8997.9	9359.6	9634.8
12.5°	7803.5	7824.6	7879.3	7960.5	8106.9	8327.5	8570.9	8611.5	9034.9	9536.0	9906.5
15°	7904.0	7939.3	7944.6	7978.1	8059.3	8299.2	8595.6	8638.0	9114.3	9716.0	10215.2
17.5°	8345.1	8357.4	8302.8	8232.2	8193.4	8346.9	8669.7	8713.8	9209.6	9894.1	10511.6
20°	9015.5	9008.5	8890.3	8699.7	8502.1	8526.8	8791.5	8837.3	9338.4	10051.2	10808.0
22.5°	9862.4	9837.7	9656.0	9304.9	8967.9	8826.8	9004.9	9043.8	9532.5	10275.2	11125.6
25°	10889.2	10834.5	10594.6	10123.5	9627.7	9264.3	9326.0	9363.1	9814.8	10525.8	11416.7
27.5°	11972.5	11917.8	11612.6	11042.7	10382.9	9816.5	9768.9	9800.6	10135.9	10711.0	11632.0
30°	13105.2	13046.9	12768.2	12129.5	11183.8	10388.1	10181.7	10194.1	10361.7	10811.6	11808.4
32.5°	14243.1	14188.4	13876.2	13135.2	12053.6	11002.1	10479.9	10464.0	10497.5	10915.7	12007.8
35°	15397.0	15418.1	15052.9	14232.5	13016.9	11684.9	10832.7	10799.2	10725.1	11129.2	12290.1
37.5°	16632.0	16617.9	16145.0	15287.6	14024.4	12425.9	11339.1	11333.8	11078.0	11533.2	12732.9
40°	17457.7	17466.5	17178.9	16367.3	15042.3	13246.3	11988.4	11976.0	11640.8	12138.3	13313.3
42.5°	17780.5	17838.8	17912.9	17397.7	16108.0	14197.3	12762.9	12745.2	12425.9	13006.4	13996.1
45°	17803.5	17919.9	18378.6	18313.3	17187.7	15285.8	13752.7	13703.3	13473.9	14160.2	14811.2
47.5°	17605.9	17725.8	18488.0	18858.5	18152.8	16434.4	14910.0	14871.2	14673.6	15603.4	15693.4
50°	17173.6	17288.3	18262.2	19124.9	18946.7	17538.8	16243.8	16141.5	16035.6	17270.6	16702.5
52.5°	16363.8	16584.3	17960.5	19188.4	19421.3	18519.8	17646.4	17579.4	17637.6	19029.6	17713.5
55°	14446.0	14693.0	17182.4	19135.5	19772.4	19343.7	19049.1	19045.5	19347.2	20875.1	18798.5
57.5°	13371.6	13546.2	15598.1	19045.5	20188.8	20162.3	20437.6	20471.1	21058.6	22884.6	19934.7
60°	12764.6	12948.1	14795.3	18712.1	20834.5	21220.9	21854.3	21921.3	22798.2	25109.4	21302.1
62.5°	12212.4	12413.6	14297.8	18032.8	21594.9	22734.7	23551.5	23611.5	24640.1	27395.9	22623.5
65°	11268.5	11496.1	13569.2	17586.5	22286.5	24708.9	25709.3	25749.8	26755.5	29791.8	23634.4
67.5°	9934.7	10142.9	12194.8	16600.2	22798.2	27106.6	28578.0	28600.9	28853.2	31483.8	24151.4
70°	8376.9	8456.2	10236.4	14564.2	22193.0	29349.0	31722.0	31727.3	30765.7	32567.1	24066.7
72.5°	5885.7	6072.7	7431.2	11025.1	19072.0	29075.5	33353.9	33413.9	31654.9	32020.1	22143.6
75°	3609.7	3807.3	4661.3	6681.4	12099.5	22867.0	30816.9	31233.3	29987.7	28549.8	18089.3
77.5°	2413.6	2487.7	3041.6	3895.6	5481.7	13156.3	23692.7	24476.0	24911.8	20820.4	11568.5
80°	1346.2	1487.3	2016.6	2420.6	2438.3	5227.6	14206.1	14389.6	13860.3	8290.4	3569.2
82.5°	712.8	790.4	1346.2	1422.0	1330.3	1750.2	5294.6	5299.9	4428.4	2223.0	1060.3
85°	552.2	617.5	922.7	868.0	679.3	776.3	1746.6	1841.9	1506.7	910.4	345.8
87.5°	275.2	342.3	626.3	550.5	266.4	222.3	624.6	666.9	594.6	356.4	125.3
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°	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1	9213.1
2.5°	9236.1	9251.9	9271.4	9250.2	9243.1	9214.9	9167.3	9156.7	9132.0	9133.7	9147.9
5°	9317.2	9343.7	9333.1	9251.9	9154.9	9019.1	8877.9	8757.9	8678.5	8673.3	8668.0
7.5°	9472.5	9490.1	9407.2	9176.1	8904.4	8590.3	8293.9	8034.6	7877.6	7838.7	7829.9
10°	9716.0	9712.4	9484.8	9019.1	8477.4	7916.4	7440.0	7080.1	6870.2	6808.4	6792.5
12.5°	9987.7	9947.1	9511.3	8733.2	7874.0	7096.0	6492.6	6092.1	5873.3	5802.8	5785.1
15°	10268.2	10167.6	9446.0	8306.3	7133.0	6212.1	5578.7	5208.2	5090.0	5051.2	5044.1
17.5°	10529.3	10335.2	9259.0	7727.6	6287.9	5331.7	4837.7	4689.5	4717.7	4768.9	4770.6
20°	10785.1	10448.1	8959.1	6997.2	5397.0	4606.6	4439.0	4548.3	4682.4	4786.5	4800.6
22.5°	11037.4	10527.5	8572.7	6153.8	4599.5	4199.0	4317.2	4516.6	4670.1	4783.0	4802.4
25°	11249.1	10546.9	8039.9	5254.1	4045.5	4045.5	4259.0	4447.8	4599.5	4710.7	4730.1
27.5°	11326.8	10416.4	7288.3	4421.3	3766.8	3974.9	4177.8	4334.9	4463.7	4581.9	4603.0
30°	11356.7	10174.7	6420.3	3752.6	3652.1	3899.1	4068.5	4202.5	4324.3	4435.4	4454.8
32.5°	11362.0	9883.6	5499.3	3373.3	3572.7	3819.7	3932.6	4050.8	4181.4	4225.5	4232.5
35°	11395.6	9539.5	4528.9	3179.3	3498.6	3745.6	3835.6	3920.3	3708.5	3724.4	3738.5
37.5°	11492.6	9199.0	3717.4	3069.9	3451.0	3706.8	3814.4	3507.4	3341.6	3302.8	3297.5
40°	11674.3	8835.6	3115.7	2981.7	3433.3	3726.2	3678.5	3274.5	2988.7	2775.2	2743.5
42.5°	11926.6	8443.9	2731.1	2923.4	3445.7	3819.7	3489.8	3050.5	2575.9	2438.3	2420.6
45°	12210.7	8032.8	2522.9	2882.9	3488.0	3892.0	3451.0	2752.3	2383.6	2279.5	2270.6
47.5°	12485.9	7530.0	2415.3	2865.2	3546.2	3833.8	3286.9	2660.6	2291.8	2237.1	2242.4
50°	12801.7	7076.6	2350.0	2845.8	3597.4	3796.8	3101.6	2612.9	2256.5	2323.6	2394.1
52.5°	13068.1	6607.3	2291.8	2807.0	3616.8	3731.5	3054.0	2621.7	2256.5	2385.3	2452.4
55°	13383.9	6252.6	2224.8	2725.8	3579.7	3546.2	3020.5	2674.7	2283.0	2201.8	2208.9
57.5°	13791.5	6136.2	2150.7	2598.8	3456.2	3276.3	3004.6	2725.8	2267.1	2216.0	2233.6
60°	14356.0	6259.7	2120.7	2433.0	3263.9	3064.6	3006.4	2699.4	2156.0	2067.7	2069.5
62.5°	14894.1	6397.3	2118.9	2328.9	3027.5	2875.8	2965.8	2612.9	2099.5	2048.3	2067.7
65°	15070.6	6257.9	2034.2	2212.4	2761.1	2650.0	2891.7	2521.2	2057.2	1979.5	1976.0
67.5°	14834.2	5825.7	1863.1	2023.6	2455.9	2387.1	2794.6	2411.8	1990.1	1926.6	1916.0
70°	14132.0	4860.6	1651.4	1774.9	2108.3	2090.7	2641.1	2284.8	1900.1	1845.4	1799.6
72.5°	12242.4	3463.3	1392.0	1476.7	1716.7	1773.1	2429.4	2118.9	1773.1	1654.9	1584.3
75°	10054.7	2563.5	1143.3	1160.9	1303.8	1457.3	2138.3	1924.8	1623.1	1422.0	1367.3
77.5°	6157.4	1568.5	910.4	917.4	935.1	1162.7	1760.8	1707.8	1432.6	1185.6	1146.8
80°	1993.6	855.7	658.1	691.6	638.7	852.2	1362.0	1453.8	1229.7	991.5	949.2
82.5°	758.6	499.3	444.6	467.5	442.8	571.6	993.3	1164.4	1007.4	815.1	663.4
85°	367.0	282.3	262.9	294.6	273.5	292.9	635.1	857.4	763.9	531.1	494.0
87.5°	130.6	125.3	100.6	135.9	116.4	104.1	194.1	432.3	504.6	365.2	326.4
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)