

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: P323843

Luminaire Tested: **GAN-SA9B-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41464 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

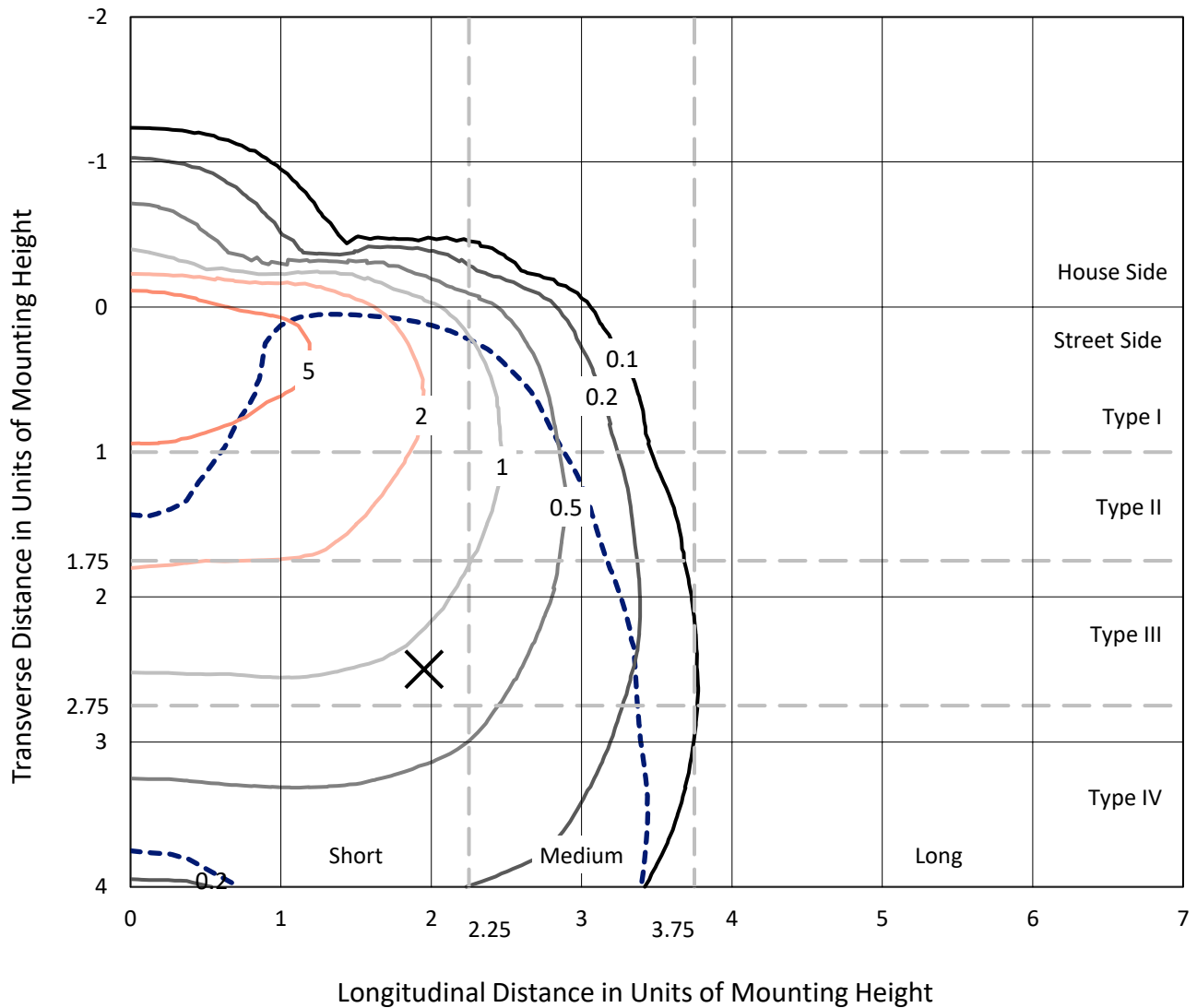
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

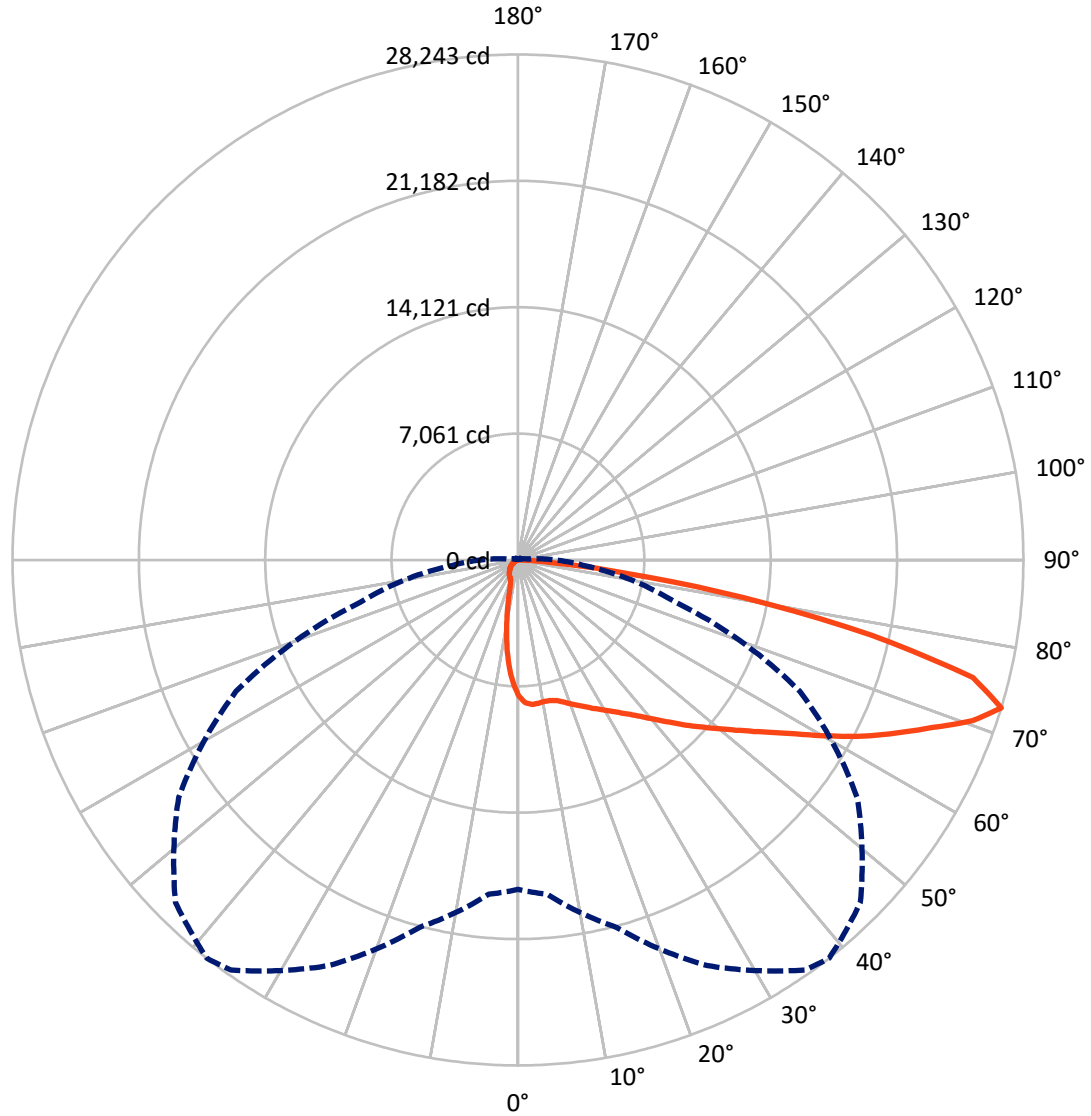
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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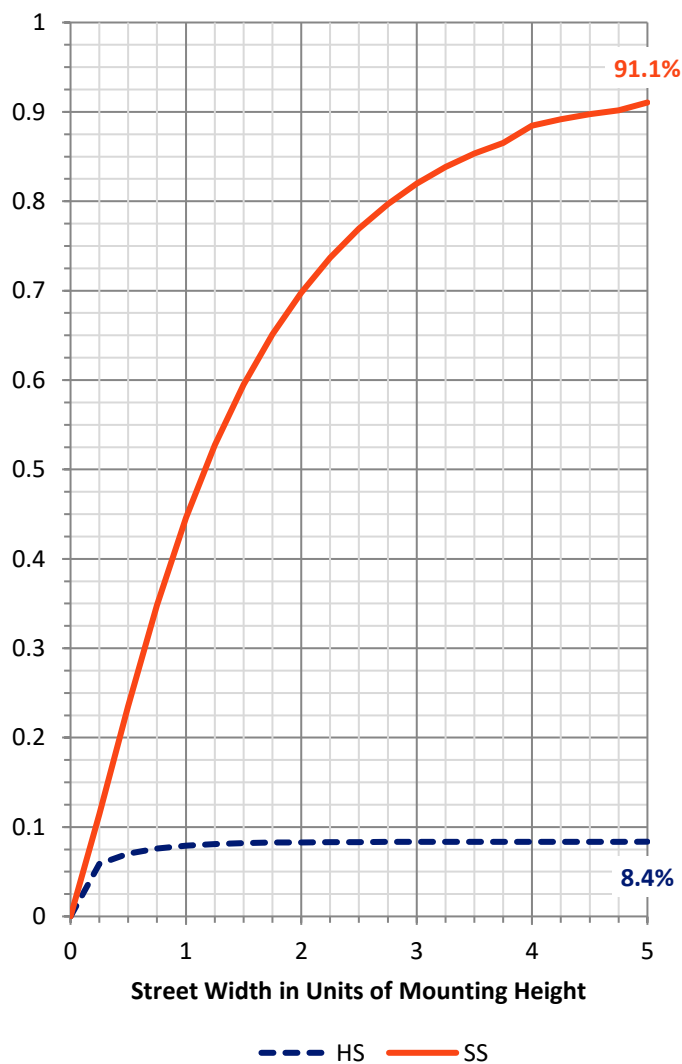
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3489.3	0.0	3489.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	37974.6	0.0	37974.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	41464.0	0.0	41464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.8	1.6
10°-20°	1588.9	3.8
20°-30°	2527.1	6.1
30°-40°	3799.3	9.2
40°-50°	5796.1	14.0
50°-60°	8191.8	19.8
60°-70°	10275.3	24.8
70°-80°	7683.0	18.5
80°-90°	952.7	2.3
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°	41464.0	100.0
0°-180°	41464.0	100.0

Coefficient of Utilization



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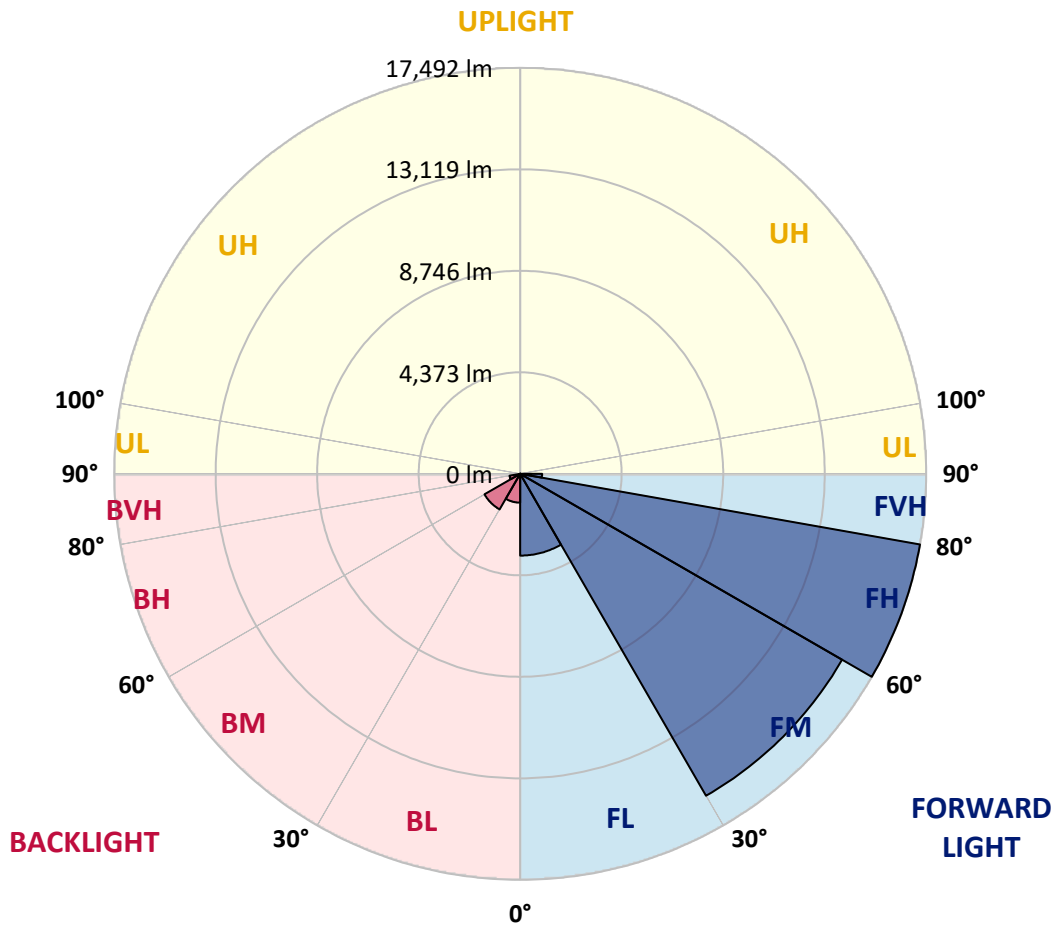
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3523.4	8.5			
FM (30°-60°)	16015.2	38.6			
FH (60°-80°)	17492.2	42.2			G5
FVH (80°-90°)	943.8	2.3			G5
BL (0°-30°)	1242.4	3.0	B3/2500		
BM (30°-60°)	1771.9	4.3	B2/2500		
BH (60°-80°)	466.1	1.1	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1
2.5°	8093.5	8095.2	8076.3	8045.3	8005.7	7985.0	7950.6	7895.4	7836.9	7731.9	7618.2
5°	8258.8	8258.8	8234.7	8193.4	8129.6	8110.7	8045.3	7957.4	7836.9	7666.4	7475.3
7.5°	8241.6	8245.0	8212.3	8169.3	8105.5	8088.3	8009.1	7910.9	7761.1	7554.5	7310.0
10°	8152.0	8160.6	8134.8	8114.1	8055.6	8036.7	7962.6	7864.5	7714.6	7494.2	7213.5
12.5°	8060.8	8069.4	8078.0	8096.9	8060.8	8053.9	7995.3	7912.7	7769.7	7540.7	7223.9
15°	8002.2	8019.4	8081.4	8155.5	8164.1	8157.2	8119.3	8041.8	7897.2	7659.5	7297.9
17.5°	8002.2	8029.8	8158.9	8300.1	8350.1	8355.2	8322.5	8214.0	8041.8	7787.0	7366.8
20°	8069.4	8107.3	8308.7	8508.5	8591.1	8591.1	8527.4	8375.9	8174.4	7902.3	7413.3
22.5°	8241.6	8291.5	8544.7	8775.4	8863.2	8844.3	8758.2	8537.8	8312.2	8033.2	7471.8
25°	8580.8	8618.7	8882.2	9114.6	9168.0	9125.0	9016.5	8734.1	8487.8	8210.6	7578.6
27.5°	9018.2	9023.4	9295.4	9491.8	9459.0	9429.8	9293.7	8980.3	8741.0	8463.7	7762.9
30°	9498.6	9498.6	9738.0	9887.8	9787.9	9763.8	9627.8	9278.2	9064.7	8808.1	8024.6
32.5°	9963.6	9984.3	10178.8	10273.6	10161.6	10137.5	10004.9	9655.4	9495.2	9333.3	8432.7
35°	10413.0	10428.5	10612.8	10664.5	10557.7	10564.6	10469.9	10173.7	10113.4	10092.7	9047.5
37.5°	10848.7	10852.2	11039.9	11072.6	11019.2	11077.7	11086.3	10824.6	10936.5	11103.6	9913.7
40°	11246.5	11249.9	11435.9	11520.3	11611.6	11687.3	11754.5	11615.0	11985.2	12372.7	10945.1
42.5°	11565.1	11601.2	11837.1	11997.3	12238.4	12383.0	12565.6	12558.7	13233.7	13815.7	12191.9
45°	11845.8	11907.8	12236.7	12517.3	12930.6	13161.4	13447.2	13671.1	14638.9	15422.4	13454.1
47.5°	12216.0	12274.5	12649.9	13109.7	13660.8	13963.8	14437.4	14921.3	16183.5	16999.8	14687.1
50°	12737.8	12711.9	13082.2	13741.7	14449.4	14847.2	15522.3	16247.2	17716.1	18373.9	15412.1
52.5°	13294.0	13283.6	13557.4	14428.8	15379.3	15844.3	16736.3	17618.0	19181.6	19321.0	15744.4
55°	13982.8	13908.7	14139.5	15212.3	16483.2	16982.5	18033.0	18974.9	20349.1	19854.9	15911.4
57.5°	14704.3	14582.0	14802.5	16085.4	17728.2	18318.8	19469.1	20297.4	21125.7	20219.9	15909.7
60°	15449.9	15305.3	15567.0	17177.1	19274.5	19958.2	21025.8	21191.1	21850.7	20404.2	15792.6
62.5°	16073.3	15987.2	16376.4	18344.7	21001.7	21673.3	22202.0	22003.9	22462.0	20547.1	15518.8
65°	16732.8	16738.0	17366.5	19706.8	22837.4	23290.3	23335.1	23057.8	22973.4	20517.8	14592.4
67.5°	17624.8	17707.5	18756.2	21556.2	24623.1	24972.7	24969.3	24199.5	23347.1	19353.8	12538.0
70°	18568.5	18763.1	20357.7	23672.6	26572.5	26927.2	26744.7	24926.2	21983.3	15649.7	8873.6
72.5°	18410.1	18747.6	21248.0	25007.1	27972.5	28242.8	27056.3	23140.5	17375.2	9095.7	3778.1
75°	14203.2	14594.1	19482.9	23684.6	26503.6	26260.8	23247.2	18007.1	9495.2	2538.3	850.7
77.5°	7502.8	7711.2	12870.4	18043.3	20665.9	20157.9	16376.4	9989.4	2894.7	628.5	382.3
80°	3929.6	3977.9	5608.6	10237.4	12755.0	12758.4	9705.3	4387.7	1193.4	322.0	256.6
82.5°	2104.3	2145.6	2963.6	4730.4	6683.1	6058.1	3716.1	2414.3	694.0	182.5	246.2
85°	506.3	514.9	1680.7	2161.1	2627.8	1877.0	1103.8	2026.8	187.7	106.8	199.8
87.5°	194.6	198.0	623.4	935.1	669.9	433.9	516.6	756.0	24.1	41.3	31.0
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°	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1	7625.1
2.5°	7549.3	7504.6	7394.3	7254.9	7130.9	7041.3	6907.0	6819.2	6760.6	6758.9	6736.5
5°	7358.2	7266.9	7029.3	6746.9	6490.3	6259.5	5987.5	5772.2	5612.1	5586.2	5531.1
7.5°	7153.3	7003.4	6638.4	6197.5	5767.0	5329.6	4821.6	4506.5	4236.2	4107.0	4093.2
10°	7027.6	6817.5	6299.1	5662.0	4987.0	4275.8	3611.1	3151.3	2818.9	2724.2	2653.6
12.5°	7001.7	6724.5	6037.4	5159.2	4194.8	3254.6	2519.3	2030.3	1765.1	1680.7	1658.3
15°	7027.6	6681.4	5817.0	4661.5	3392.4	2309.2	1691.0	1406.9	1307.0	1282.9	1281.2
17.5°	7043.1	6629.8	5567.3	4108.7	2614.0	1649.7	1295.0	1212.3	1196.8	1195.1	1198.5
20°	7041.3	6550.6	5269.4	3492.3	1944.2	1296.7	1171.0	1153.8	1150.3	1152.0	1150.3
22.5°	7029.3	6457.6	4942.2	2856.8	1468.9	1158.9	1117.6	1107.3	1105.5	1105.5	1105.5
25°	7051.7	6383.5	4582.3	2249.0	1210.6	1095.2	1069.4	1060.8	1059.0	1059.0	1055.6
27.5°	7132.6	6342.2	4187.9	1730.6	1093.5	1038.4	1017.7	1016.0	1010.8	1009.1	1012.5
30°	7263.5	6342.2	3755.7	1346.6	1022.9	979.8	964.3	960.9	959.2	957.4	959.2
32.5°	7494.2	6390.4	3283.9	1119.3	955.7	914.4	904.1	909.2	904.1	904.1	904.1
35°	7910.9	6535.1	2789.7	976.4	885.1	850.7	840.3	847.2	843.8	843.8	842.1
37.5°	8518.8	6803.7	2292.0	890.3	823.1	787.0	773.2	783.5	780.1	780.1	778.4
40°	9259.3	7194.6	1818.5	824.8	762.9	725.0	712.9	718.1	709.5	709.5	712.9
42.5°	10173.7	7690.5	1405.2	761.1	702.6	666.4	659.5	654.4	638.9	630.3	632.0
45°	11189.7	8207.1	1095.2	699.1	645.8	616.5	606.2	592.4	566.5	549.3	551.0
47.5°	12097.2	8604.9	890.3	638.9	594.1	571.7	556.2	530.4	492.5	471.8	473.6
50°	12574.2	8665.2	757.7	578.6	545.9	523.5	501.1	461.5	416.7	394.3	392.6
52.5°	12696.4	8382.8	659.5	523.5	497.7	471.8	442.6	389.2	339.2	315.1	311.7
55°	12741.2	7952.3	571.7	471.8	446.0	416.7	378.8	318.6	272.1	248.0	246.2
57.5°	12593.1	7310.0	502.8	425.3	394.3	358.2	311.7	254.9	210.1	191.1	191.1
60°	12264.2	6440.3	449.4	375.4	341.0	299.6	251.4	198.0	156.7	141.2	141.2
62.5°	11608.1	5314.1	399.5	323.7	291.0	248.0	203.2	149.8	110.2	101.6	103.3
65°	10370.0	4031.2	349.6	277.2	248.0	204.9	158.4	106.8	74.0	74.0	77.5
67.5°	8456.8	2800.0	297.9	235.9	213.5	167.0	120.5	74.0	51.7	58.5	65.4
70°	5598.3	1570.5	254.9	194.6	182.5	132.6	89.5	49.9	41.3	55.1	67.2
72.5°	2112.9	611.3	213.5	156.7	158.4	101.6	63.7	37.9	37.9	60.3	79.2
75°	588.9	299.6	153.3	115.4	124.0	74.0	46.5	32.7	36.2	68.9	93.0
77.5°	346.1	220.4	99.9	67.2	84.4	51.7	31.0	25.8	31.0	58.5	89.5
80°	279.0	117.1	58.5	34.4	46.5	29.3	20.7	15.5	8.6	22.4	46.5
82.5°	279.0	70.6	27.6	24.1	24.1	15.5	10.3	6.9	1.7	0.0	12.1
85°	187.7	29.3	17.2	15.5	12.1	5.2	3.4	1.7	0.0	0.0	0.0
87.5°	31.0	12.1	6.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
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)