

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: P383604

Luminaire Tested: **GAN-SA8D-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41986.7 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

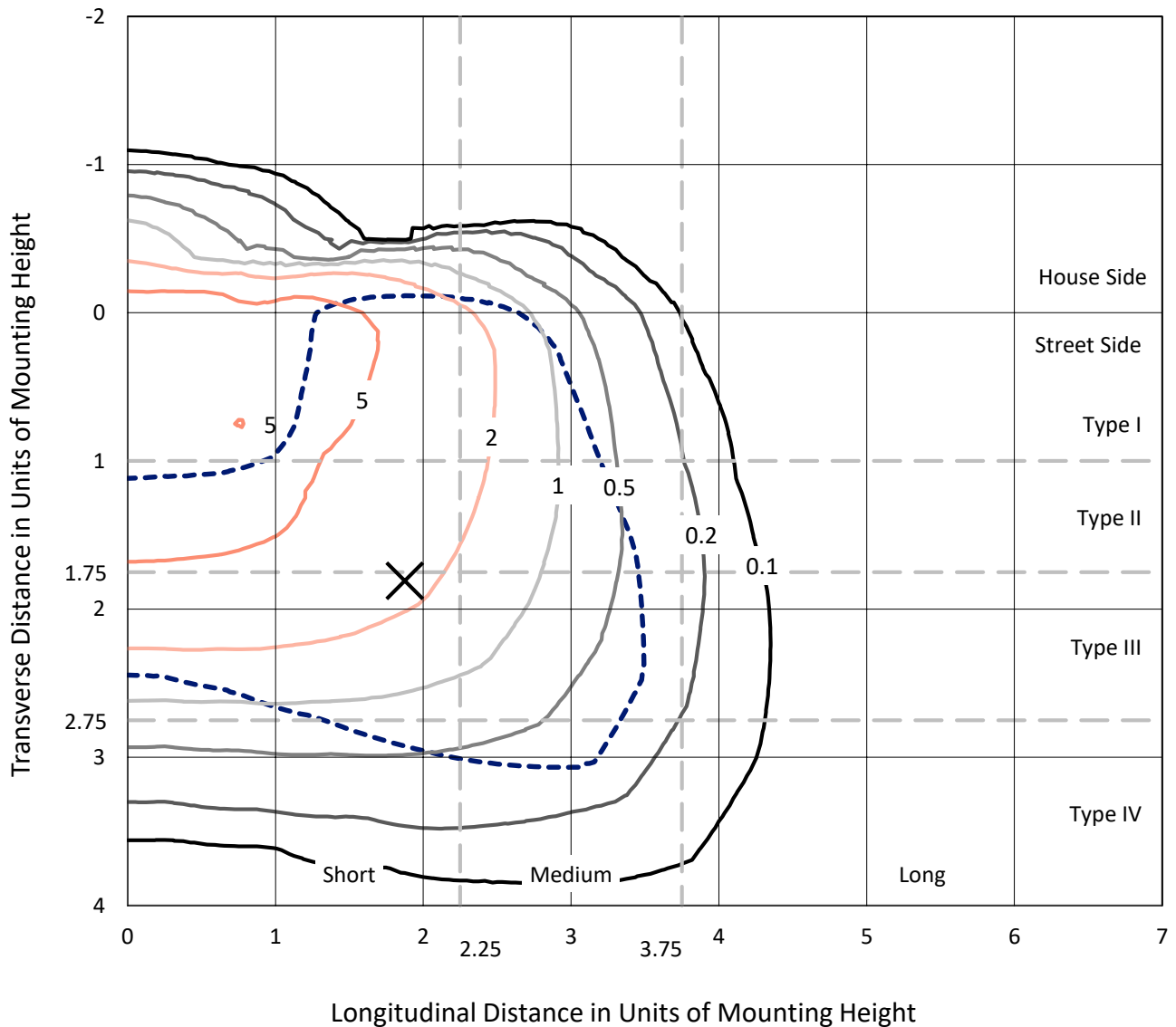
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383604
 CATALOG NUMBER: GAN-SA8D-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

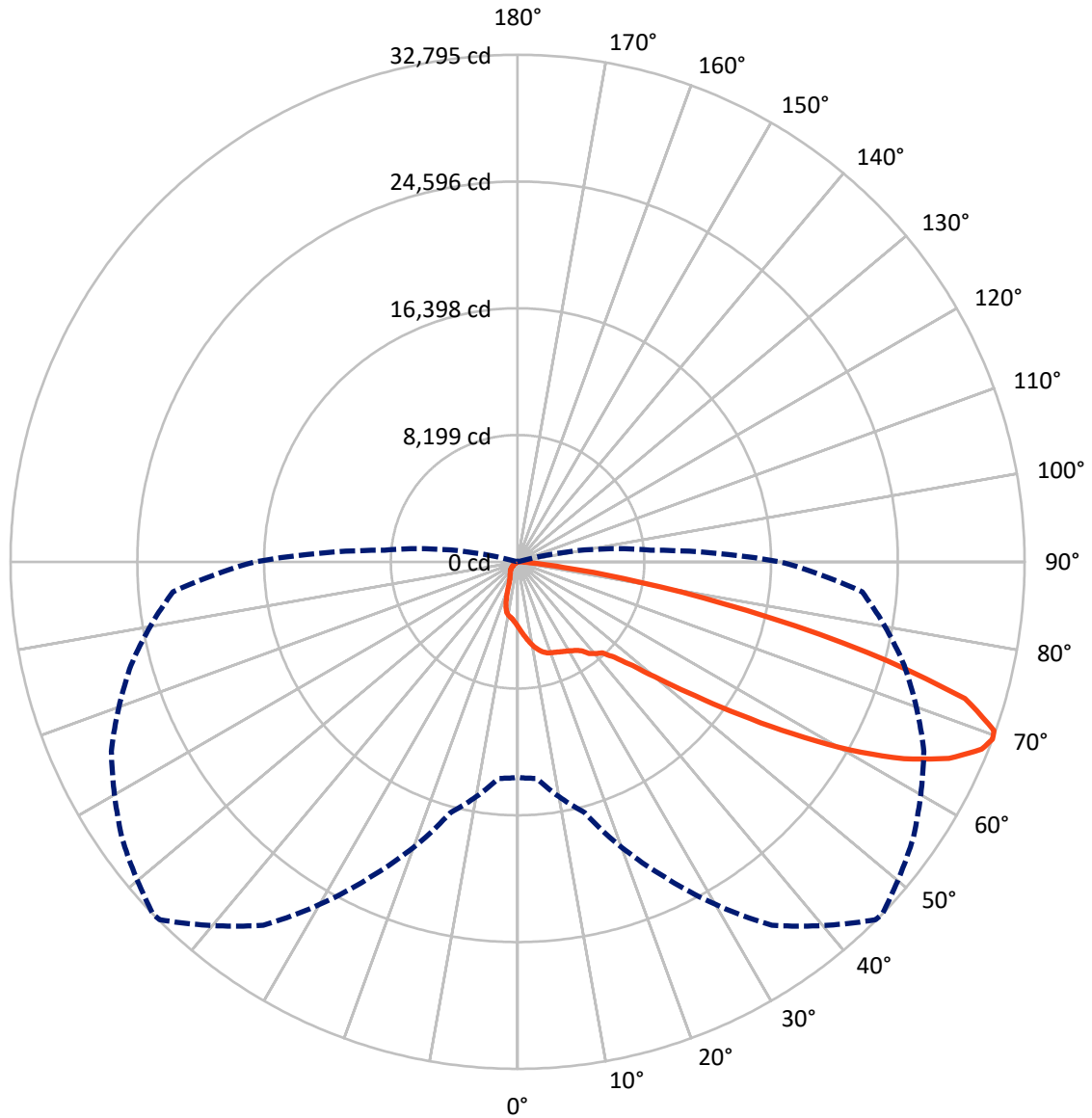
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P383604
CATALOG NUMBER: GAN-SA8D-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P383604
 CATALOG NUMBER: GAN-SA8D-735-U-T4W-HSS

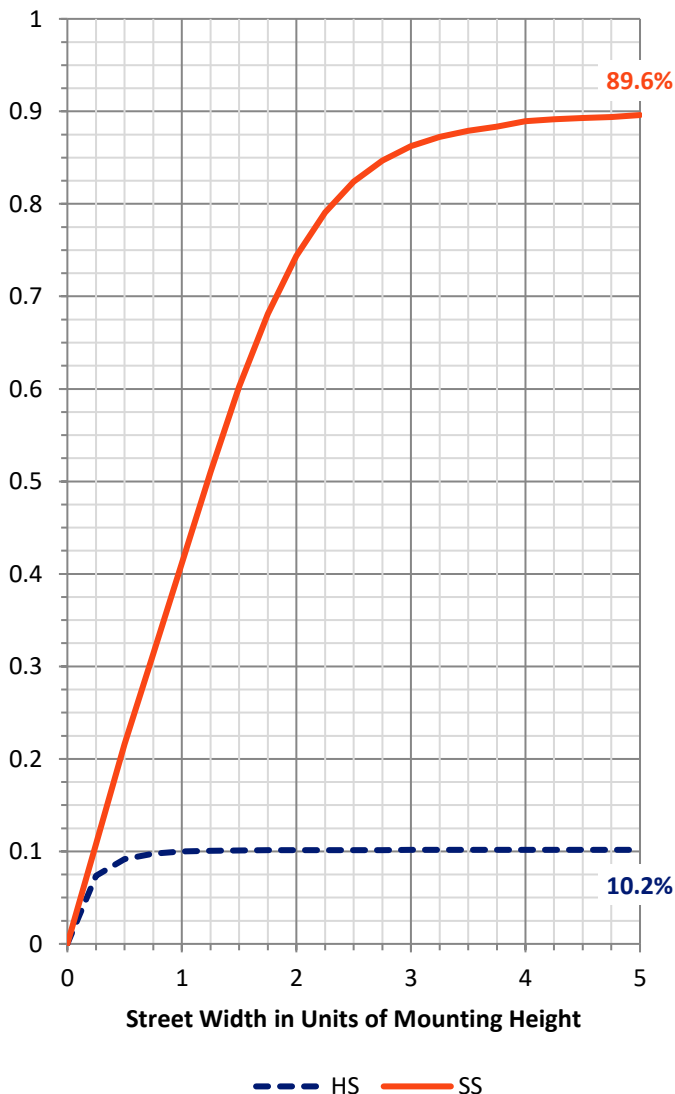
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4309.0	0.0	4309.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	37677.8	0.0	37677.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	41986.7	0.0	41986.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	1.0
10°-20°	1270.3	3.0
20°-30°	1997.8	4.8
30°-40°	2864.9	6.8
40°-50°	4951.6	11.8
50°-60°	9782.3	23.3
60°-70°	13671.6	32.6
70°-80°	6604.9	15.7
80°-90°	424.5	1.0
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°	41986.7	100.0
0°-180°	41986.7	100.0

Coefficient of Utilization

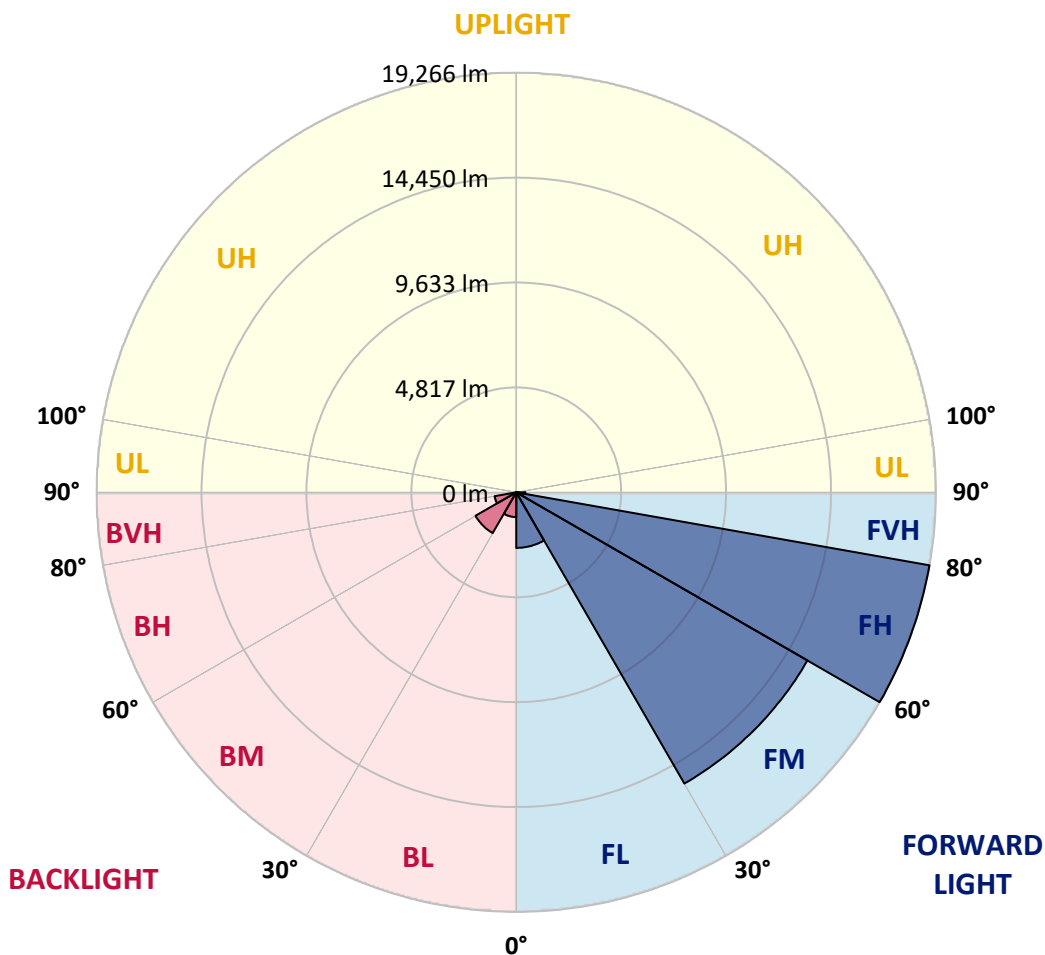


REPORT NUMBER: P383604
 CATALOG NUMBER: GAN-SA8D-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.2	6.1			
FM (30°-60°)	15439.4	36.8			
FH (60°-80°)	19266.2	45.9			G5
FVH (80°-90°)	421.0	1.0			G3/500
BL (0°-30°)	1135.7	2.7	B3/2500		
BM (30°-60°)	2159.3	5.1	B2/2500		
BH (60°-80°)	1010.4	2.4	B3/2500		G3/2500
BVH (80°-90°)	3.6	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





REPORT NUMBER: P383604

CATALOG NUMBER: GAN-SA8D-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9
2.5°	4673.5	4667.5	4640.0	4628.2	4561.2	4521.9	4506.2	4456.9	4386.1	4315.2	4236.4
5°	5205.0	5203.1	5151.8	5102.6	4976.6	4858.5	4836.9	4722.7	4563.2	4413.6	4264.0
7.5°	5748.3	5722.8	5671.5	5577.1	5393.9	5205.0	5187.3	5025.9	4799.4	4582.9	4368.3
10°	6209.0	6193.2	6126.3	5982.6	5768.0	5553.4	5531.8	5332.9	5077.0	4811.3	4537.7
12.5°	6567.2	6555.5	6466.9	6287.8	6059.3	5836.9	5807.4	5630.2	5356.6	5059.3	4736.5
15°	6785.8	6779.9	6671.7	6480.7	6256.3	6063.4	6037.7	5882.2	5628.2	5317.2	4953.0
17.5°	6837.0	6839.0	6726.7	6533.8	6348.8	6210.9	6191.3	6073.1	5860.6	5551.5	5169.5
20°	6722.8	6746.5	6646.0	6478.7	6364.5	6291.7	6275.9	6205.0	6025.9	5734.5	5342.8
22.5°	6561.4	6573.2	6504.3	6392.1	6344.9	6358.6	6350.7	6311.3	6159.8	5892.0	5514.1
25°	6462.9	6462.9	6421.6	6327.1	6358.6	6443.2	6445.2	6437.4	6317.3	6085.0	5722.8
27.5°	6459.0	6447.1	6399.9	6329.0	6415.7	6545.6	6553.5	6606.6	6531.8	6319.2	5982.6
30°	6616.5	6602.7	6502.3	6409.8	6520.0	6659.8	6679.5	6795.6	6758.2	6573.2	6272.0
32.5°	6984.7	6935.4	6712.9	6561.4	6644.1	6811.4	6837.0	7022.0	7081.1	6886.2	6551.5
35°	7488.6	7333.0	7012.1	6848.7	6856.7	7031.9	7055.4	7327.2	7502.4	7173.6	6768.1
37.5°	8183.5	8106.7	7585.0	7148.0	7183.4	7449.2	7518.1	7813.4	7764.2	7331.1	7014.2
40°	9707.2	9587.1	9032.0	7986.6	7496.4	7787.8	7809.4	7967.0	7970.9	7687.4	7526.0
42.5°	11782.1	11732.9	11148.2	9508.4	8112.7	8014.2	8053.6	8319.4	8616.6	8439.4	8431.5
45°	14079.5	14053.9	13433.8	11528.2	9358.8	8756.4	8805.5	9161.9	9730.9	9770.2	10020.2
47.5°	15928.0	15916.1	15559.8	13782.2	11266.3	10014.3	10030.1	10408.0	11408.1	11902.2	12301.8
50°	17613.1	17670.2	17388.7	16221.3	13864.9	11984.9	11947.5	12199.5	13805.8	14615.0	15111.0
52.5°	19955.8	20036.5	19247.1	18497.0	16591.4	14429.9	14400.3	14664.1	16687.8	17294.2	17382.8
55°	22024.8	21887.0	21262.9	21046.4	19916.4	17449.7	17441.8	17674.2	19475.4	19733.3	19896.7
57.5°	22938.2	22885.1	23186.2	23682.4	23398.9	21018.8	21001.1	20823.9	21969.6	21997.2	22499.2
60°	23515.0	23580.0	24503.2	26032.8	26739.6	24859.6	24745.4	23664.7	24351.7	24290.7	24828.1
62.5°	23081.9	23209.9	24871.4	27420.8	29239.7	28212.1	28050.7	26267.1	26387.2	26176.6	26676.5
65°	20782.5	20981.4	23704.0	27158.9	30480.0	30832.3	30668.9	28564.5	28003.4	27657.0	27379.4
67.5°	16874.9	16993.0	19835.7	24881.2	29920.8	32395.4	32362.0	30578.3	29224.0	27407.0	25253.3
69°	13945.6	14061.7	16798.1	22483.5	28690.5	32730.0	32795.0	31224.1	28991.6	25887.1	22375.2
70°	11811.7	11935.6	14485.0	20428.2	27263.2	32574.5	32690.7	31163.1	28326.3	24127.3	19849.4
72.5°	6195.2	6301.5	8917.8	14073.5	22225.6	29911.0	30263.4	28529.0	24011.1	17522.6	11736.8
75°	1946.9	2008.0	3482.5	7356.7	15217.3	23257.1	23337.8	22379.1	17050.1	9638.3	4888.0
77.5°	742.2	724.5	1159.5	2710.8	7693.3	14644.5	15138.6	13985.0	8947.3	3407.7	1128.0
80°	399.6	401.6	602.4	1122.1	3291.5	7526.0	7943.3	6777.9	3179.3	1063.1	259.9
82.5°	173.3	181.1	338.6	594.5	1511.9	2775.7	2984.4	2484.3	1214.6	714.6	96.4
85°	37.4	41.4	163.4	322.9	616.2	779.6	817.0	805.1	773.7	555.1	37.4
87.5°	0.0	0.0	72.8	116.2	155.5	177.2	155.5	202.8	427.2	374.0	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383604
 CATALOG NUMBER: GAN-SA8D-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9	4206.9
2.5°	4210.9	4175.4	4114.4	4047.5	4000.3	3951.0	3911.7	3893.9	3874.2	3860.4	3878.1
5°	4203.0	4134.1	4016.0	3901.8	3819.1	3752.2	3697.0	3675.4	3653.7	3638.0	3636.0
7.5°	4271.9	4175.4	3994.3	3827.0	3699.0	3608.4	3533.6	3502.2	3476.5	3464.7	3454.9
10°	4403.8	4279.7	4037.6	3819.1	3653.7	3500.2	3338.8	3214.8	3134.0	3096.7	3082.9
12.5°	4575.0	4419.5	4120.3	3860.4	3620.3	3325.0	2982.4	2687.1	2496.2	2433.2	2395.8
15°	4775.9	4582.9	4228.6	3913.6	3498.2	2958.8	2378.1	1992.2	1815.0	1779.6	1740.2
17.5°	4968.8	4756.1	4358.5	3923.4	3230.5	2364.3	1742.2	1480.4	1411.5	1435.1	1441.0
20°	5138.0	4927.4	4486.4	3836.9	2744.2	1773.8	1348.5	1283.5	1309.1	1354.4	1362.3
22.5°	5309.4	5092.8	4604.5	3608.4	2122.2	1346.6	1214.6	1230.4	1256.0	1301.3	1309.1
25°	5518.0	5293.6	4714.8	3189.2	1592.6	1145.7	1153.6	1177.2	1202.8	1244.2	1248.1
27.5°	5758.2	5547.6	4787.7	2643.8	1181.2	1053.2	1078.8	1114.2	1139.8	1179.2	1187.1
30°	6077.0	5882.2	4811.3	2078.8	990.2	970.5	982.3	1025.6	1063.1	1098.5	1104.3
32.5°	6376.4	6213.0	4732.5	1569.0	917.4	893.7	893.7	919.3	962.7	996.1	1004.0
35°	6651.9	6545.6	4480.6	1147.7	862.2	822.8	803.2	803.2	830.8	858.3	866.2
37.5°	7016.1	7012.1	4073.0	915.4	809.1	763.8	722.5	691.0	681.1	687.0	691.0
40°	7640.2	7646.0	3541.6	820.9	763.8	702.8	639.8	582.7	529.6	511.8	509.8
42.5°	8614.6	8526.0	2984.4	775.6	724.5	639.8	545.3	468.6	385.8	360.2	358.3
45°	10162.0	9636.3	2393.8	734.2	683.1	568.9	450.8	346.4	279.6	259.9	259.9
47.5°	12416.0	11095.1	1854.4	689.0	628.0	488.2	340.6	250.0	204.8	194.9	196.8
50°	14746.9	12524.3	1421.4	632.0	561.1	403.5	252.0	181.1	155.5	155.5	157.5
52.5°	16813.9	13571.5	1108.4	570.9	478.3	316.9	191.0	141.8	130.0	128.0	130.0
55°	18749.0	14246.8	848.5	500.1	380.0	236.2	145.7	116.2	108.2	104.3	102.4
57.5°	20615.2	14581.4	635.9	403.5	275.6	171.3	116.2	98.5	90.5	84.7	82.7
60°	21857.5	14309.8	437.0	297.3	191.0	124.0	96.4	84.7	74.8	68.9	67.0
62.5°	22558.3	13567.6	281.5	214.5	135.8	92.5	76.8	70.9	57.1	51.1	51.1
65°	22274.8	12343.2	196.8	153.5	98.5	68.9	57.1	57.1	41.4	33.4	31.5
67.5°	19739.2	10427.7	149.6	114.2	70.9	51.1	43.3	49.2	25.6	15.7	15.7
69°	16983.1	8642.2	128.0	94.5	59.1	41.4	37.4	45.3	17.7	11.8	9.9
70°	14760.7	7455.1	116.2	82.7	49.2	35.4	33.4	43.3	17.7	9.9	7.9
72.5°	8831.2	4157.7	88.6	59.1	31.5	27.6	27.6	49.2	17.7	9.9	7.9
75°	3569.0	1464.7	64.9	41.4	23.7	23.7	33.4	63.0	15.7	7.9	5.9
77.5°	809.1	320.9	37.4	25.6	15.7	23.7	39.4	49.2	9.9	3.9	0.0
80°	196.8	78.7	23.7	15.7	9.9	17.7	29.5	27.6	2.0	0.0	0.0
82.5°	64.9	27.6	9.9	7.9	2.0	5.9	13.8	7.9	0.0	0.0	0.0
85°	27.6	15.7	3.9	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.7	5.9	0.0	0.0	0.0	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)