

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: P323183

Luminaire Tested: **GAN-SA9D-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52323 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

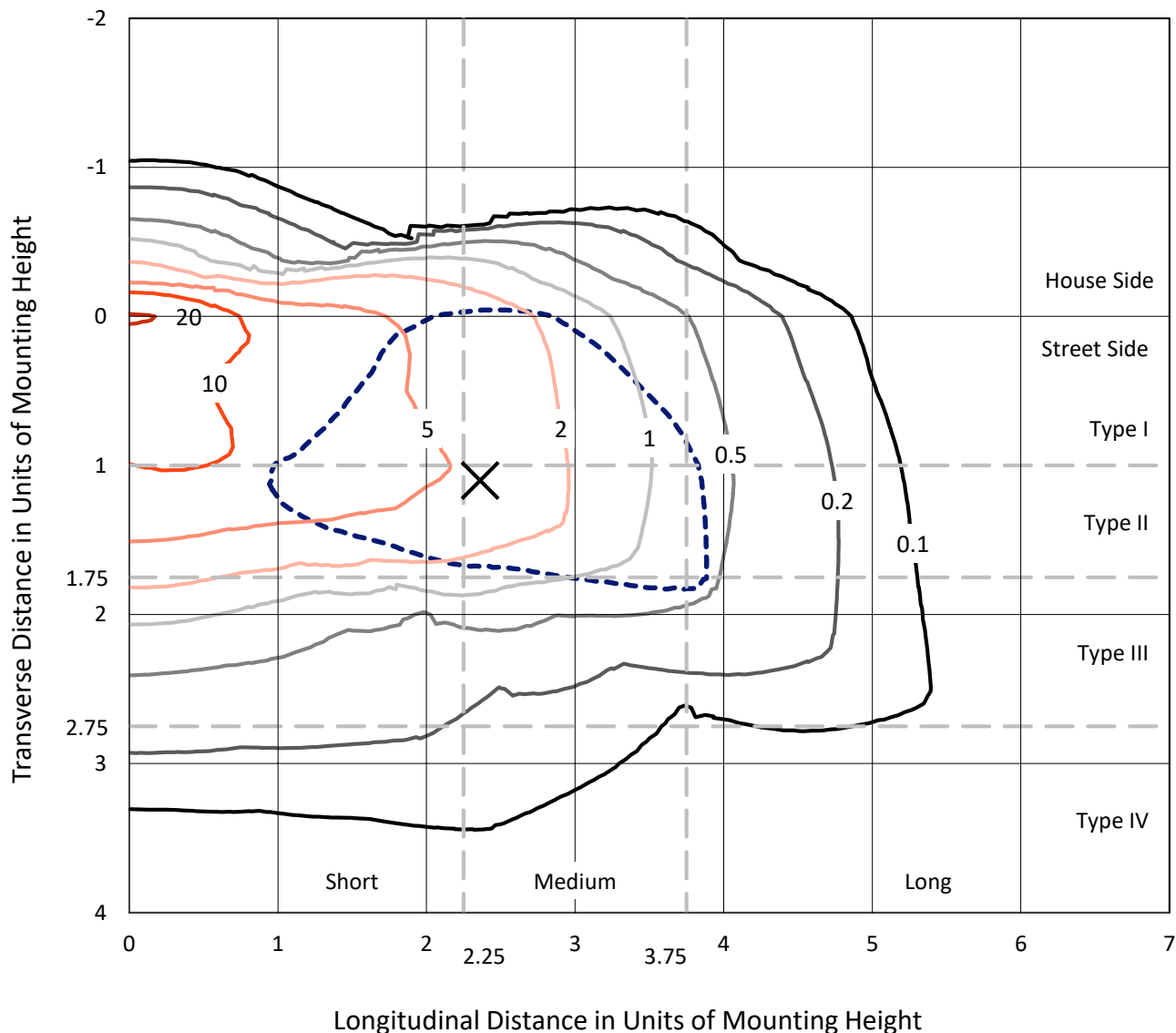
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323183
 CATALOG NUMBER: GAN-SA9D-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

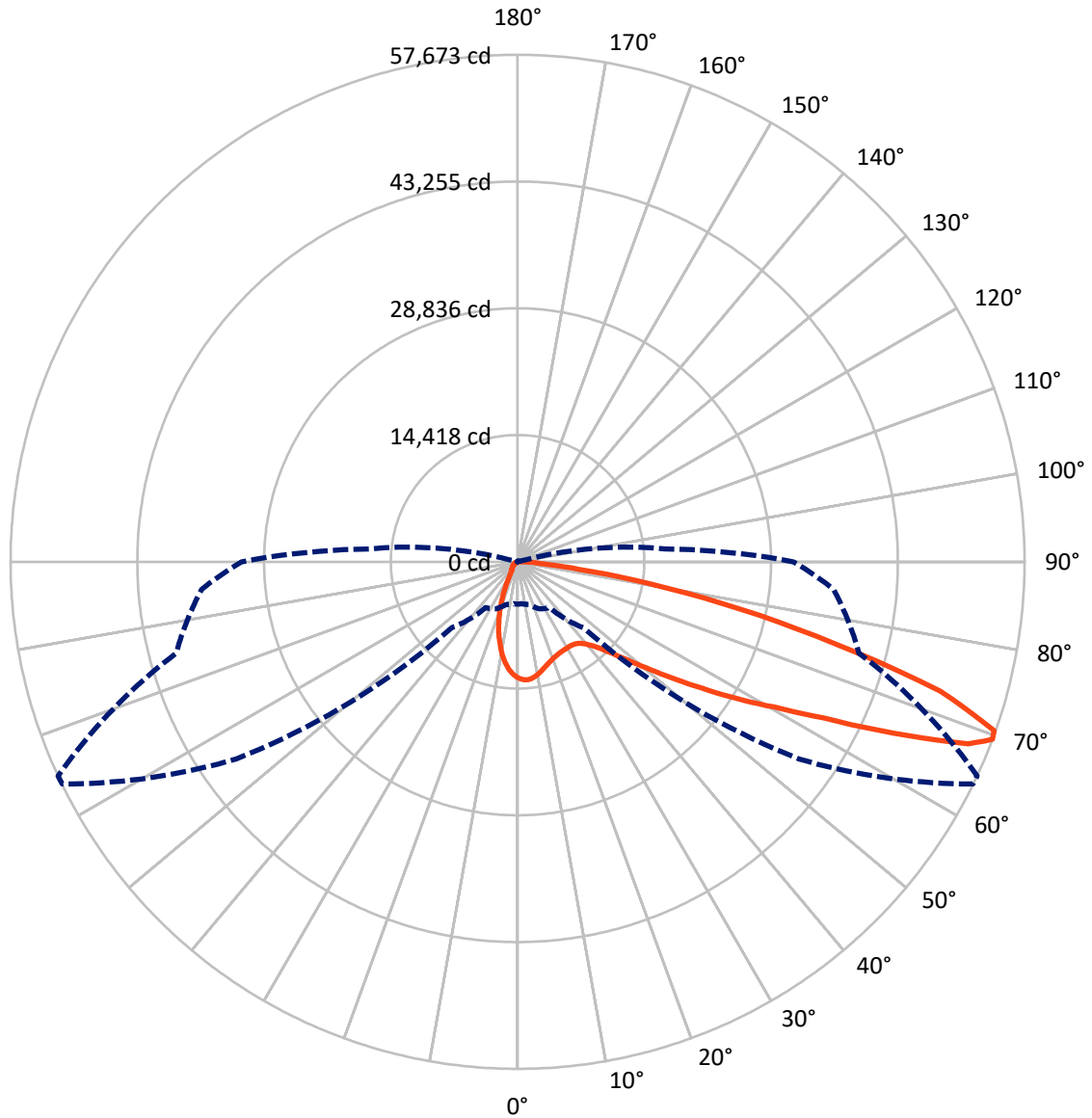
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P323183
CATALOG NUMBER: GAN-SA9D-730-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323183
 CATALOG NUMBER: GAN-SA9D-730-U-SL2-HSS

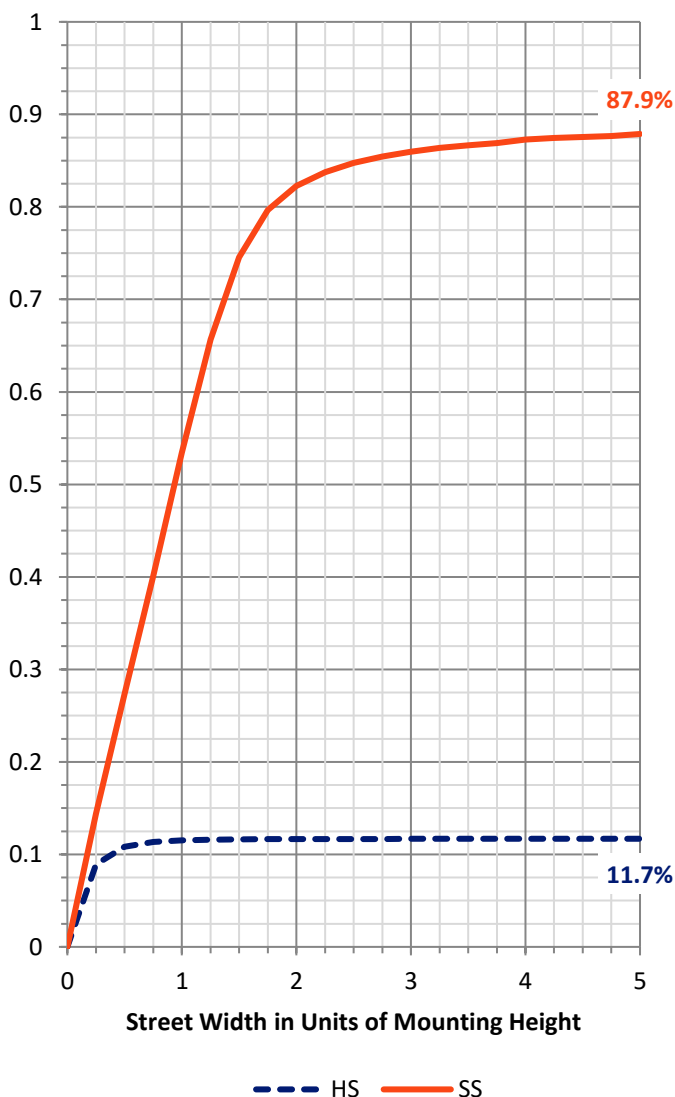
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6167.6	0.0	6167.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	46155.4	0.0	46155.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	52323.0	0.0	52323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1105.6	2.1
10°-20°	2420.3	4.6
20°-30°	3352.2	6.4
30°-40°	4674.0	8.9
40°-50°	7265.0	13.9
50°-60°	11663.2	22.3
60°-70°	13193.0	25.2
70°-80°	7748.3	14.8
80°-90°	901.3	1.7
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°	52323.0	100.0
0°-180°	52323.0	100.0

Coefficient of Utilization

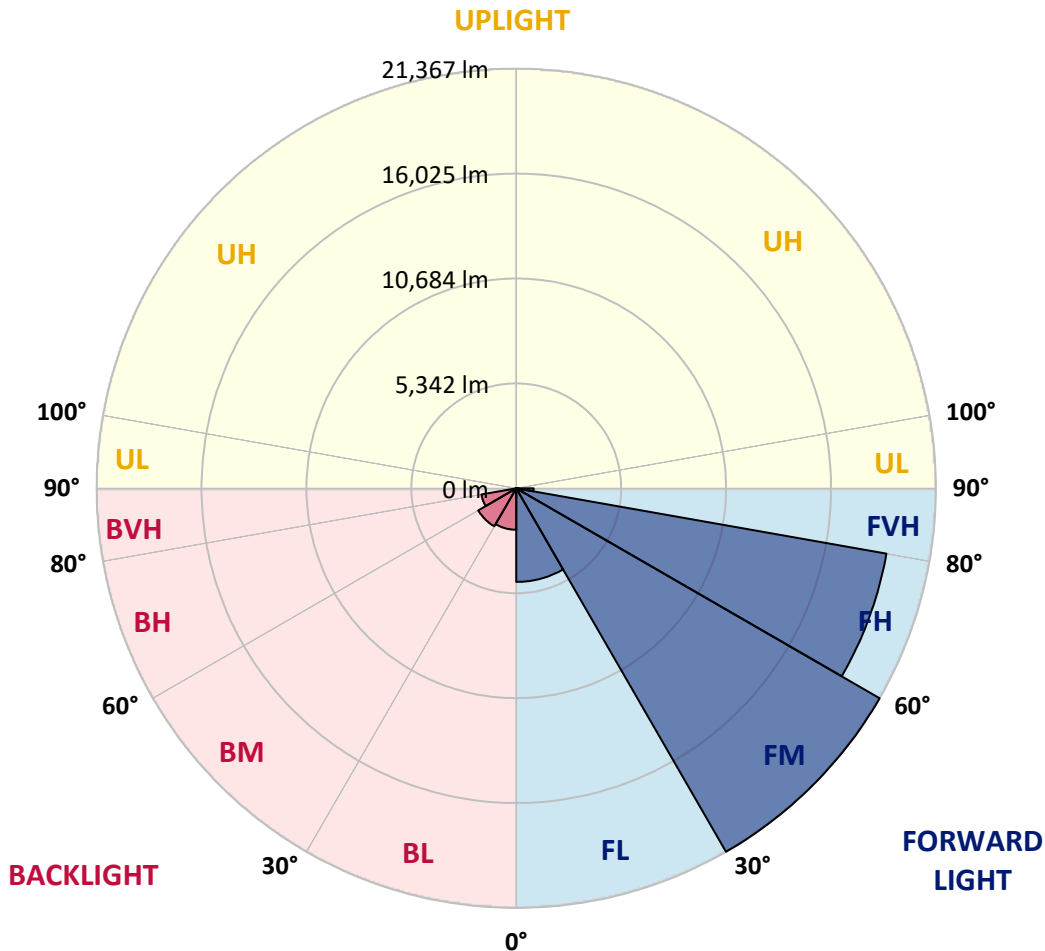


REPORT NUMBER: P323183
 CATALOG NUMBER: GAN-SA9D-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4767.8	9.1			
FM (30°-60°)	21367.2	40.8			
FH (60°-80°)	19139.2	36.6			G5
FVH (80°-90°)	881.1	1.7			G5
BL (0°-30°)	2110.3	4.0	B3/2500		
BM (30°-60°)	2235.0	4.3	B2/2500		
BH (60°-80°)	1802.1	3.4	B3/2500		G3/2500
BVH (80°-90°)	20.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P323183
 CATALOG NUMBER: GAN-SA9D-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1
2.5°	13339.5	13306.2	13332.8	13390.4	13419.2	13419.2	13441.3	13414.7	13423.6	13359.4	13266.4
5°	12504.8	12453.8	12526.9	12688.5	12887.8	13058.3	13310.7	13443.5	13456.8	13459.0	13350.5
7.5°	11605.9	11559.4	11667.9	11858.3	12115.1	12431.7	12872.3	13257.5	13279.7	13487.8	13408.1
10°	10875.3	10842.0	10968.2	11171.9	11473.0	11827.3	12367.5	12903.3	12967.5	13428.0	13399.2
12.5°	10295.2	10268.6	10388.2	10622.9	10930.6	11322.5	11887.1	12509.2	12595.5	13293.0	13355.0
15°	9872.3	9867.9	9967.5	10193.3	10534.3	10899.6	11477.5	12143.9	12243.5	13146.8	13348.3
17.5°	9650.9	9657.5	9730.6	9923.2	10215.5	10578.6	11132.1	11836.1	11944.6	13016.2	13381.5
20°	9628.8	9635.4	9675.3	9783.7	10020.6	10341.7	10850.9	11577.1	11690.0	12918.8	13434.7
22.5°	9823.6	9819.2	9830.2	9819.2	9952.0	10195.6	10664.9	11377.8	11508.5	12854.6	13476.7
25°	10197.8	10191.1	10186.7	10104.8	10016.2	10146.8	10587.4	11264.9	11388.9	12808.1	13501.1
27.5°	10718.1	10713.6	10707.0	10571.9	10306.3	10224.3	10596.3	11222.9	11326.9	12770.5	13496.7
30°	11402.2	11433.2	11424.3	11236.1	10822.1	10461.2	10689.3	11200.7	11291.5	12697.4	13450.2
32.5°	12205.9	12267.9	12316.6	12115.1	11597.0	10930.6	10904.0	11225.1	11291.5	12642.0	13366.0
35°	13040.6	13120.3	13299.6	13228.8	12546.8	11636.9	11273.8	11371.2	11426.5	12673.0	13326.2
37.5°	13862.0	13957.2	14346.8	14552.7	13791.1	12571.2	11849.4	11732.1	11760.9	12861.2	13370.5
40°	14816.2	14960.1	15551.3	15883.4	15276.7	13822.1	12710.7	12352.0	12363.1	13275.3	13576.4
42.5°	16069.3	16217.7	16857.5	17377.8	16950.5	15402.9	13879.7	13299.6	13288.5	14050.2	14061.2
45°	17597.0	17752.0	18414.0	18991.8	18799.2	17276.0	15376.4	14683.4	14670.1	15272.3	14980.0
47.5°	19328.4	19481.1	20072.3	20667.9	20876.0	19463.4	17282.6	16571.9	16540.9	16970.4	16399.2
50°	20814.0	20913.6	21458.3	22259.7	23198.5	22151.2	19653.8	18969.7	18936.5	19226.5	18482.6
52.5°	21354.2	21411.8	21965.3	23087.8	25430.2	25791.1	22769.0	21887.8	21863.4	21989.6	21256.8
55°	20260.5	20364.5	21044.2	22709.2	26639.1	29904.7	26701.1	25501.1	25317.3	25045.0	24157.1
57.5°	17280.4	17446.5	18177.1	20391.1	26074.5	33168.2	32479.6	29588.1	29318.0	27653.1	26515.1
60°	12947.6	13151.3	13757.9	16146.8	23061.2	34330.6	38794.0	34142.4	33533.5	29729.8	28682.6
62.5°	8884.9	8986.7	9398.5	10955.0	16983.7	32426.5	44076.7	40242.0	39130.5	31988.1	31027.2
65°	6786.0	6821.4	6989.7	7525.4	10113.6	26340.2	46177.8	48289.9	46946.0	34689.2	33460.4
67.5°	5468.6	5439.8	5672.3	6438.4	6772.7	16069.3	43726.8	55903.9	55275.2	38300.3	35909.2
69°	4822.1	4782.3	5019.2	5909.2	6360.9	10622.9	39090.7	57633.1	57672.9	40206.6	36077.4
70°	4339.5	4366.0	4600.7	5594.8	6221.4	8338.0	34662.7	57192.5	57506.9	40919.5	35067.8
72.5°	2898.1	2969.0	3440.6	4645.0	5982.3	6310.0	20929.1	49078.1	50287.0	39314.3	30086.3
75°	1633.9	1687.1	2247.2	3502.6	5636.9	6008.8	11054.6	36157.1	37326.1	32875.9	23200.7
77.5°	801.5	830.3	1270.8	2260.5	4713.6	5725.4	6270.1	24560.1	25895.2	21458.3	13122.5
80°	338.7	354.2	635.4	1394.8	3369.7	5464.2	4656.1	15115.1	15281.2	8406.6	3495.9
82.5°	130.6	135.1	267.9	870.1	2141.0	4259.8	3894.5	7166.8	6994.1	1583.0	797.0
85°	15.5	17.7	97.4	522.5	1191.1	2191.9	3163.8	3088.6	2858.3	314.4	409.6
87.5°	0.0	0.0	6.6	159.4	354.2	1027.3	1645.0	1281.9	1155.7	101.8	212.5
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: P323183
 CATALOG NUMBER: GAN-SA9D-730-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1	13222.1
2.5°	13188.9	13166.8	13047.2	12874.5	12710.7	12507.0	12312.2	12194.8	12101.8	12039.8	12112.9
5°	13224.3	13126.9	12763.8	12298.9	11842.8	11329.1	10850.9	10445.7	10286.3	10109.2	10188.9
7.5°	13213.3	13029.5	12376.4	11548.3	10711.4	9845.7	9026.6	8395.6	8067.9	7746.8	7828.8
10°	13157.9	12847.9	11858.3	10631.7	9378.6	8134.3	6971.9	6088.5	5594.8	5147.6	5211.8
12.5°	13036.1	12604.4	11247.2	9582.3	7906.3	6265.7	4904.0	3772.7	3166.0	2898.1	2931.4
15°	12963.1	12367.5	10600.7	8519.5	6334.3	4363.8	2997.8	2229.5	1952.8	1864.2	1875.3
17.5°	12927.6	12139.5	9932.1	7304.0	4726.9	2778.6	1937.3	1709.2	1649.4	1633.9	1638.4
20°	12892.2	11909.2	9243.5	6101.8	3256.8	1868.6	1591.9	1525.5	1503.3	1483.4	1487.8
22.5°	12832.4	11687.8	8504.0	4884.1	2196.3	1516.6	1434.7	1370.5	1324.0	1299.6	1304.1
25°	12759.4	11455.3	7749.1	3637.6	1602.9	1352.8	1275.3	1184.5	1129.1	1084.9	1087.1
27.5°	12642.0	11169.7	6969.7	2648.0	1346.1	1211.1	1107.0	1007.4	914.4	863.5	863.5
30°	12478.2	10846.5	6104.0	1895.2	1206.6	1071.6	945.4	821.4	721.8	675.3	670.8
32.5°	12296.7	10509.9	5229.5	1436.9	1095.9	941.0	797.0	666.4	577.9	540.2	538.0
35°	12141.7	10146.8	4357.2	1204.4	985.2	814.8	657.6	546.9	476.0	445.0	442.8
37.5°	12042.0	9783.7	3507.0	1076.0	885.6	697.4	551.3	451.7	400.7	376.4	374.2
40°	12026.5	9513.6	2729.9	978.6	792.6	593.4	460.5	383.0	336.5	310.0	307.7
42.5°	12228.0	9358.7	2094.5	896.7	697.4	502.6	391.9	327.7	279.0	252.4	250.2
45°	12757.2	9407.4	1611.8	823.6	602.2	425.1	332.1	272.3	228.0	208.1	203.7
47.5°	13722.5	9743.9	1281.9	750.6	511.4	360.9	283.4	225.8	188.2	168.3	166.1
50°	15440.6	10534.3	1071.6	670.8	427.3	307.7	234.7	183.8	152.8	135.1	132.8
52.5°	17721.0	11942.4	956.5	593.4	354.2	261.3	192.6	146.1	119.6	106.3	104.1
55°	20236.1	13647.2	881.2	509.2	290.0	217.0	152.8	115.1	93.0	81.9	77.5
57.5°	22691.5	15124.0	810.3	427.3	241.3	177.1	121.8	90.8	73.1	62.0	59.8
60°	24947.6	16481.1	728.4	343.2	197.0	139.5	95.2	70.8	57.6	46.5	46.5
62.5°	27363.0	17530.6	615.5	267.9	161.6	106.3	77.5	64.2	46.5	39.9	37.6
65°	29922.4	18309.9	482.7	208.1	126.2	79.7	64.2	66.4	37.6	28.8	26.6
67.5°	31813.2	18154.9	356.5	163.8	97.4	62.0	62.0	70.8	33.2	22.1	19.9
69°	31397.0	16895.2	298.9	141.7	84.1	53.1	57.6	70.8	31.0	19.9	17.7
70°	30190.3	15500.3	263.5	126.2	75.3	48.7	55.4	68.6	28.8	19.9	17.7
72.5°	25142.4	11674.5	205.9	95.2	59.8	39.9	46.5	59.8	28.8	19.9	15.5
75°	18912.1	7472.3	157.2	68.6	44.3	31.0	35.4	44.3	28.8	17.7	15.5
77.5°	10290.8	2694.5	112.9	46.5	31.0	24.4	24.4	33.2	26.6	13.3	8.9
80°	2645.8	677.5	70.8	31.0	24.4	17.7	15.5	22.1	15.5	2.2	0.0
82.5°	653.1	152.8	37.6	22.1	17.7	6.6	6.6	11.1	6.6	0.0	0.0
85°	358.7	75.3	24.4	15.5	8.9	0.0	0.0	2.2	0.0	0.0	0.0
87.5°	183.8	22.1	6.6	4.4	2.2	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)