

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: P321584

Luminaire Tested: **GAN-SA0D-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53790 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

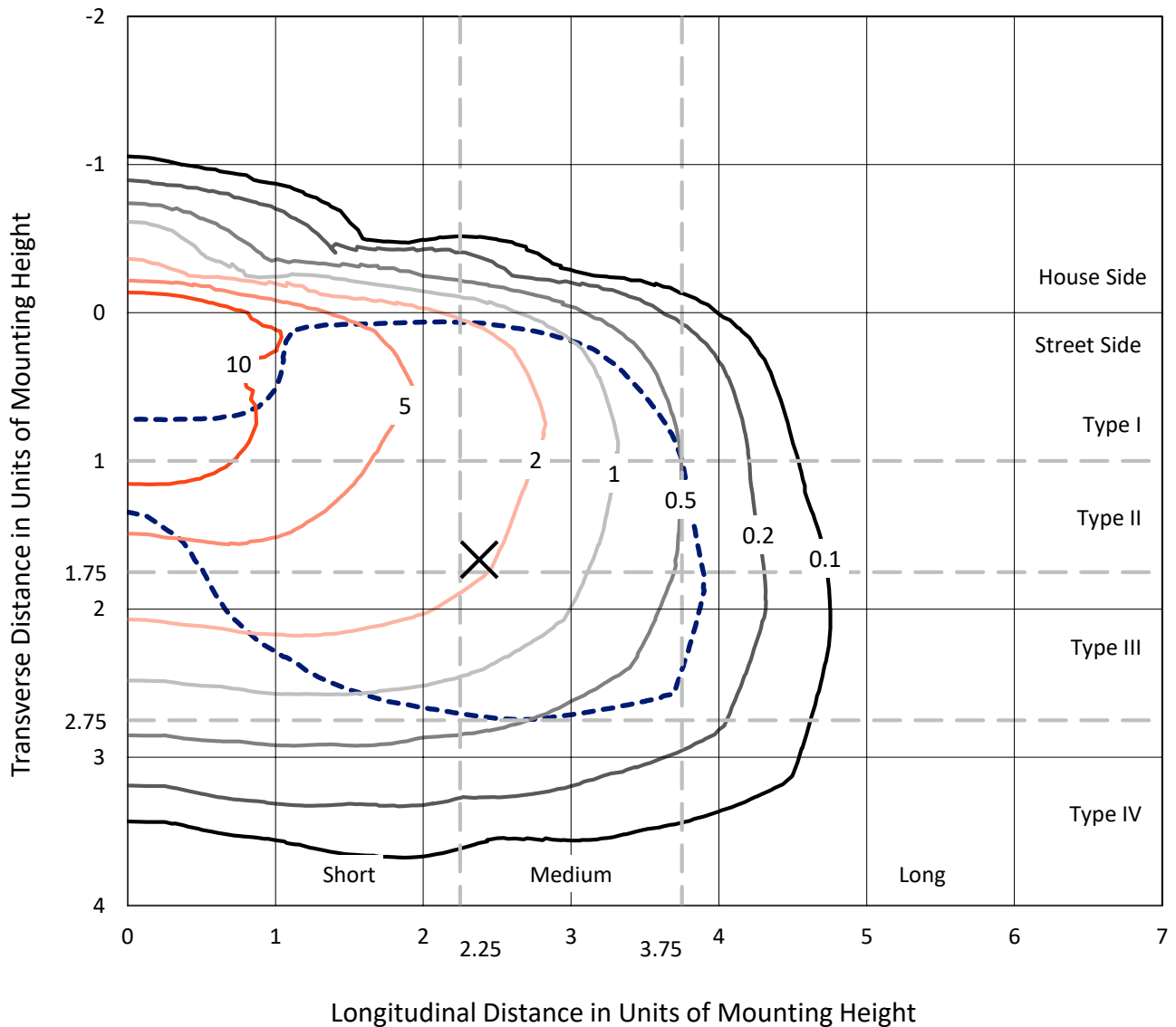
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321584
 CATALOG NUMBER: GAN-SA0D-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

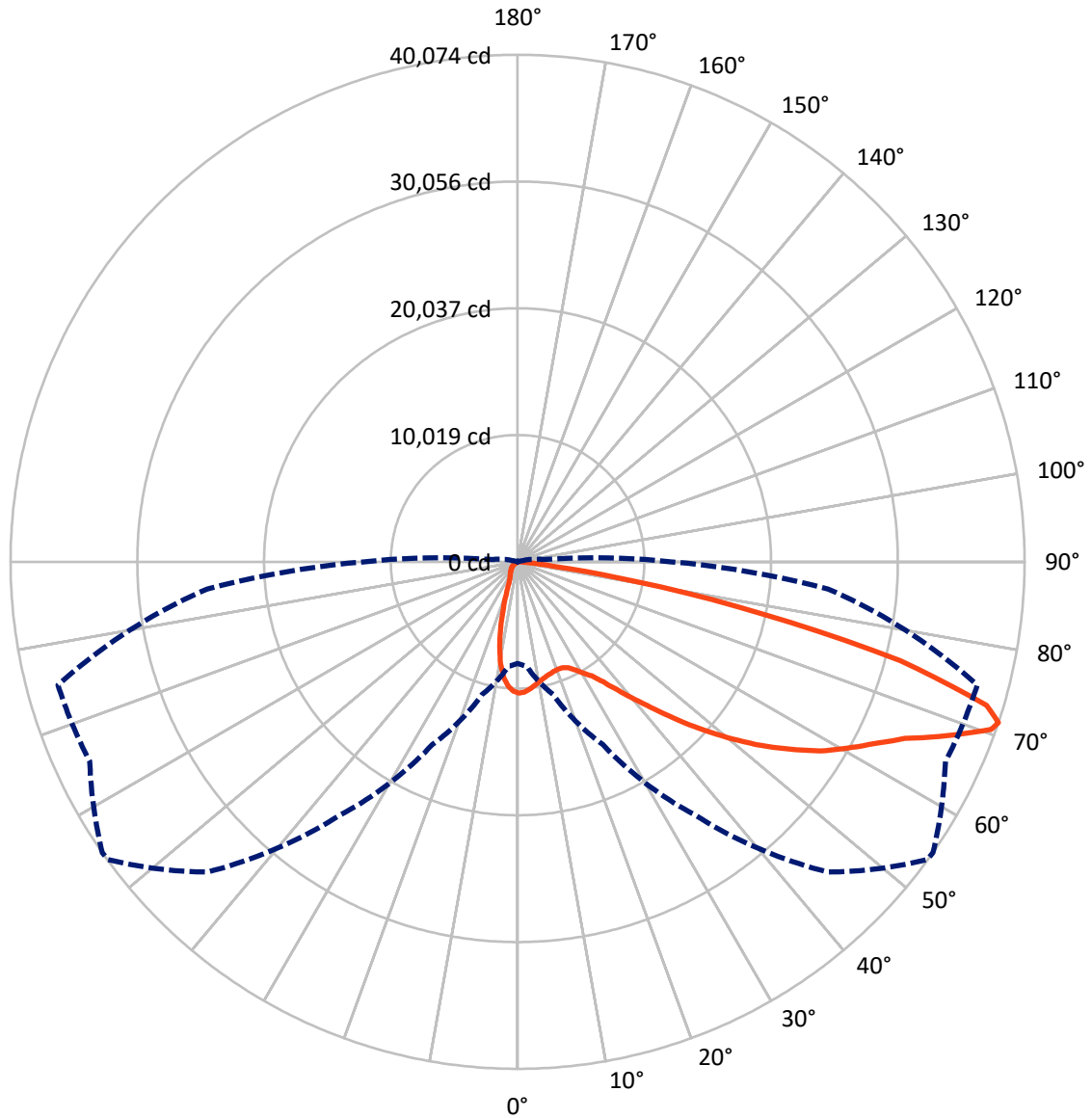
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type III - Medium - N/A

REPORT NUMBER: P321584
CATALOG NUMBER: GAN-SA0D-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321584
 CATALOG NUMBER: GAN-SA0D-730-U-T3R-HSS

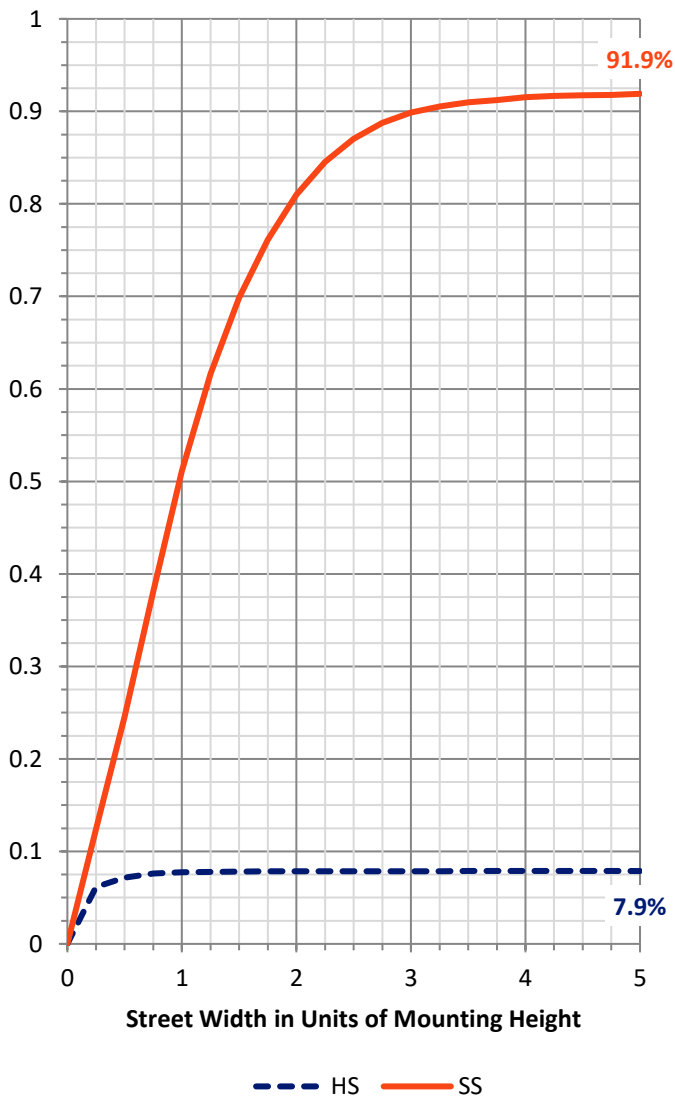
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4258.7	0.0	4258.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	49531.3	0.0	49531.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	53790.0	0.0	53790.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.5	1.6
10°-20°	1996.8	3.7
20°-30°	3208.9	6.0
30°-40°	5452.1	10.1
40°-50°	8462.4	15.7
50°-60°	11377.4	21.2
60°-70°	13918.4	25.9
70°-80°	8137.7	15.1
80°-90°	351.8	0.7
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°	53790.0	100.0
0°-180°	53790.0	100.0

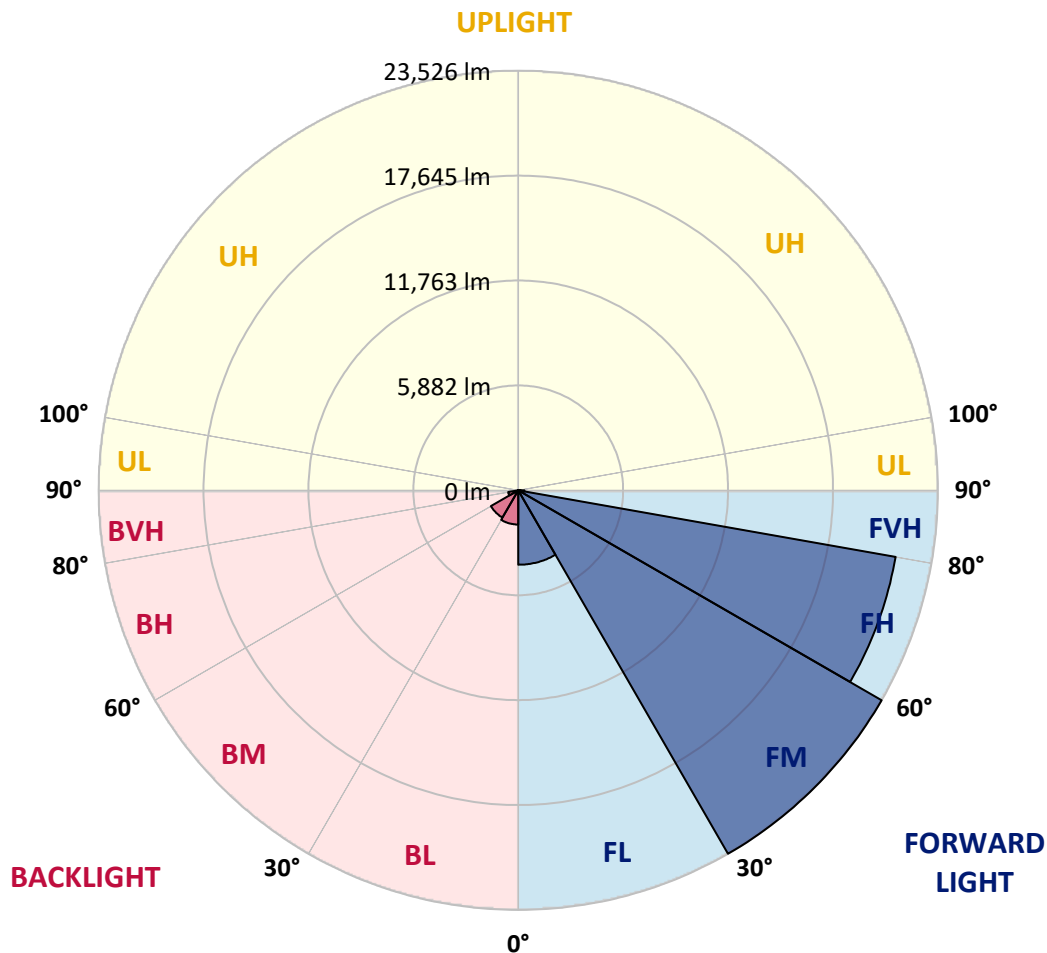


REPORT NUMBER: P321584
 CATALOG NUMBER: GAN-SA0D-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4173.4	7.8			
FM (30°-60°)	23526.2	43.7			
FH (60°-80°)	21485.5	39.9			G5
FVH (80°-90°)	346.2	0.6			G3/500
BL (0°-30°)	1916.9	3.6	B3/2500		
BM (30°-60°)	1765.7	3.3	B2/2500		
BH (60°-80°)	570.6	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.5	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 III Medium





REPORT NUMBER: P321584

CATALOG NUMBER: GAN-SAOD-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6
2.5°	10069.3	10081.3	10124.8	10144.1	10190.0	10267.3	10306.0	10308.4	10371.2	10395.3	10414.7
5°	9356.8	9429.2	9501.7	9579.0	9719.1	9905.0	10088.6	10105.5	10308.4	10458.1	10537.8
7.5°	8743.3	8808.5	8895.4	9018.6	9216.7	9508.9	9815.7	9851.9	10235.9	10576.5	10755.2
10°	8112.9	8166.0	8291.6	8472.8	8745.7	9137.0	9550.0	9610.4	10170.7	10735.9	11049.9
12.5°	7439.0	7470.4	7622.6	7883.4	8284.4	8781.9	9325.4	9405.1	10129.7	10919.4	11397.7
15°	6927.0	6941.5	7086.4	7356.9	7815.8	8463.1	9151.5	9248.1	10139.3	11139.2	11776.9
17.5°	6796.6	6803.8	6881.1	7067.1	7472.9	8178.1	9013.8	9132.1	10168.3	11354.2	12158.5
20°	7325.5	7274.8	7195.1	7166.1	7340.0	8006.6	8931.7	9064.5	10206.9	11545.0	12501.4
22.5°	8777.1	8627.4	8296.5	7854.5	7586.4	8018.7	8953.4	9086.3	10330.1	11779.3	12897.6
25°	10931.5	10723.8	10161.1	9291.6	8455.9	8366.5	9134.6	9269.8	10569.2	12059.5	13276.8
27.5°	13383.0	13177.7	12489.4	11247.9	9822.9	9054.9	9550.0	9675.6	10924.3	12308.2	13566.6
30°	15730.7	15672.7	14861.2	13450.7	11542.6	10170.7	10086.2	10192.4	11187.5	12458.0	13796.0
32.5°	17720.9	17629.1	16976.9	15605.1	13511.0	11511.2	10716.6	10748.0	11385.6	12651.2	14095.5
35°	19566.1	19452.6	18880.2	17583.2	15530.2	13148.7	11687.5	11641.6	11817.9	13040.1	14530.3
37.5°	21177.1	21281.0	20645.7	19411.5	17341.7	14851.5	12996.6	12858.9	12494.2	13672.9	15160.7
40°	22524.8	22524.8	22193.9	21165.0	19298.0	16612.2	14477.1	14296.0	13511.0	14648.6	15960.1
42.5°	23010.3	23114.2	23237.3	22655.3	21049.1	18443.0	16126.8	15938.4	14943.3	16032.6	16969.7
45°	23039.3	23203.5	23833.9	23831.5	22631.1	20261.7	17986.5	17897.2	16778.9	17810.2	18220.8
47.5°	22631.1	22836.4	23875.0	24464.3	23884.6	21954.8	20020.2	19909.1	18935.7	19988.8	19529.9
50°	22000.7	22227.8	23435.4	24713.1	24737.2	23428.1	22162.5	21995.9	21309.9	22478.9	20882.4
52.5°	20872.8	21312.4	23041.7	24771.0	25297.6	24701.0	24201.0	24128.6	23966.7	24877.3	21959.7
55°	18459.9	18947.8	22053.9	24790.4	25816.8	25828.9	26111.5	26130.8	26456.9	27118.7	22761.5
57.5°	17319.9	17595.3	20329.3	24882.1	26587.3	27109.0	28058.2	28208.0	28712.8	29246.5	23676.9
60°	16602.6	16928.6	19479.2	24756.5	27797.4	28787.6	29862.4	29913.1	30454.2	31442.0	24915.9
62.5°	16030.2	16351.4	18943.0	24273.5	29157.2	30806.8	31625.6	31630.4	32036.2	34057.8	26324.1
65°	14617.2	14887.7	17858.5	23730.1	30055.6	32804.2	33673.7	33642.3	33973.2	36816.0	27959.2
67.5°	12573.9	12781.6	15643.7	21669.8	29717.5	34620.5	36765.3	36661.4	36260.5	39199.9	28601.7
70°	9721.5	9796.3	12330.0	18059.0	26548.7	35318.5	39753.0	39699.8	37663.8	38772.4	26246.8
71°	8035.6	8282.0	10866.3	15938.4	24425.6	34673.6	40042.8	40074.2	37311.1	37608.2	24626.1
72.5°	4666.3	4876.4	7876.2	12240.6	20737.5	31983.0	38540.5	38767.5	35663.9	34207.5	21034.6
75°	999.9	1070.0	2920.1	5924.7	11407.3	22416.1	30420.4	31229.5	29067.8	23271.1	12677.8
77.5°	695.6	751.1	1251.1	2688.2	3770.2	11076.4	18897.1	19810.1	17365.8	8745.7	4057.7
80°	550.7	613.5	975.8	1328.4	1019.2	3572.2	8852.0	9409.9	5791.8	1951.5	683.5
82.5°	306.7	364.7	760.8	717.3	391.3	678.7	2478.1	2801.7	1159.3	393.7	161.8
85°	89.4	108.7	490.3	521.7	166.7	130.4	422.7	524.1	219.8	103.9	72.5
87.5°	0.0	0.0	236.7	200.5	48.3	19.3	38.6	43.5	43.5	43.5	48.3
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: P321584
 CATALOG NUMBER: GAN-SA0D-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6	10373.6
2.5°	10414.7	10431.6	10371.2	10291.5	10206.9	10103.1	9994.4	9909.9	9907.4	9866.4	9825.3
5°	10542.7	10533.0	10366.3	10112.7	9813.3	9501.7	9204.6	8868.9	8757.8	8620.1	8574.2
7.5°	10779.4	10711.7	10359.1	9803.6	9146.6	8494.5	7820.7	7142.0	6852.1	6591.3	6545.4
10°	11076.4	10948.4	10313.2	9339.9	8134.6	6931.8	5915.0	4992.4	4586.6	4275.0	4260.5
12.5°	11385.6	11190.0	10185.2	8639.4	6808.7	5118.0	3946.6	3038.4	2700.3	2482.9	2502.2
15°	11709.2	11417.0	9909.9	7695.1	5299.1	3473.2	2424.9	1891.2	1755.9	1700.4	1714.8
17.5°	12040.1	11574.0	9525.8	6557.5	3808.9	2241.4	1678.6	1528.9	1528.9	1540.9	1545.8
20°	12327.5	11658.5	8960.7	5282.2	2581.9	1632.7	1468.5	1446.7	1458.8	1478.1	1480.6
22.5°	12612.6	11663.3	8224.0	3990.0	1806.6	1429.8	1398.4	1388.8	1396.0	1417.8	1420.2
25°	12844.4	11605.4	7301.4	2837.9	1441.9	1347.7	1333.2	1328.4	1333.2	1359.8	1359.8
27.5°	12938.6	11395.3	6175.9	1995.0	1292.2	1255.9	1251.1	1255.9	1263.2	1282.5	1284.9
30°	12948.3	11028.1	4948.9	1444.3	1171.4	1132.8	1142.4	1159.3	1152.1	1147.3	1152.1
32.5°	12972.4	10603.0	3753.3	1188.3	1070.0	1009.6	997.5	997.5	968.5	951.6	942.0
35°	13052.1	10103.1	2722.0	1067.6	966.1	896.1	850.2	797.0	741.5	712.5	705.3
37.5°	13177.7	9579.0	1949.1	987.8	874.3	794.6	707.7	613.5	533.8	512.0	512.0
40°	13407.2	9037.9	1441.9	925.0	801.9	702.8	572.4	449.2	376.8	364.7	364.7
42.5°	13769.5	8467.9	1149.7	869.5	739.1	608.6	437.2	326.1	272.9	265.7	263.3
45°	14146.2	7840.0	1004.8	816.4	671.4	500.0	323.6	241.5	210.1	202.9	202.9
47.5°	14523.0	7170.9	934.7	765.6	606.2	388.9	241.5	190.8	176.3	176.3	178.7
50°	14841.8	6472.9	884.0	710.1	521.7	294.7	190.8	161.8	157.0	166.7	169.1
52.5°	14921.6	5787.0	821.2	640.0	417.8	224.6	157.0	142.5	142.5	142.5	142.5
55°	14873.2	5255.6	739.1	553.1	309.2	178.7	135.3	125.6	123.2	123.2	123.2
57.5°	15037.5	4941.6	591.7	429.9	222.2	144.9	118.3	111.1	106.3	103.9	103.9
60°	15368.4	4736.3	422.7	309.2	166.7	120.8	101.4	94.2	86.9	82.1	82.1
62.5°	15808.0	4557.6	314.0	229.5	128.0	96.6	84.5	77.3	67.6	62.8	62.8
65°	16146.1	4238.8	239.1	171.5	96.6	77.3	65.2	62.8	48.3	43.5	41.1
67.5°	15629.2	3538.4	193.2	125.6	72.5	60.4	50.7	48.3	29.0	24.2	24.2
70°	13404.8	2463.6	154.6	91.8	53.1	48.3	41.1	31.4	21.7	19.3	19.3
71°	12156.1	2057.8	140.1	77.3	45.9	45.9	38.6	26.6	19.3	16.9	16.9
72.5°	10098.3	1461.2	118.3	60.4	41.1	48.3	41.1	24.2	19.3	16.9	14.5
75°	5861.9	611.1	82.1	41.1	31.4	58.0	53.1	21.7	14.5	12.1	12.1
77.5°	1763.1	224.6	45.9	26.6	24.2	50.7	60.4	19.3	7.2	2.4	2.4
80°	321.2	96.6	29.0	16.9	16.9	31.4	45.9	9.7	0.0	0.0	0.0
82.5°	113.5	48.3	16.9	9.7	7.2	14.5	21.7	0.0	0.0	0.0	0.0
85°	65.2	33.8	9.7	4.8	0.0	2.4	4.8	0.0	0.0	0.0	0.0
87.5°	43.5	9.7	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)