

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: P323222

Luminaire Tested: **GAN-SA8D-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323222
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-SA8D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 51506 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

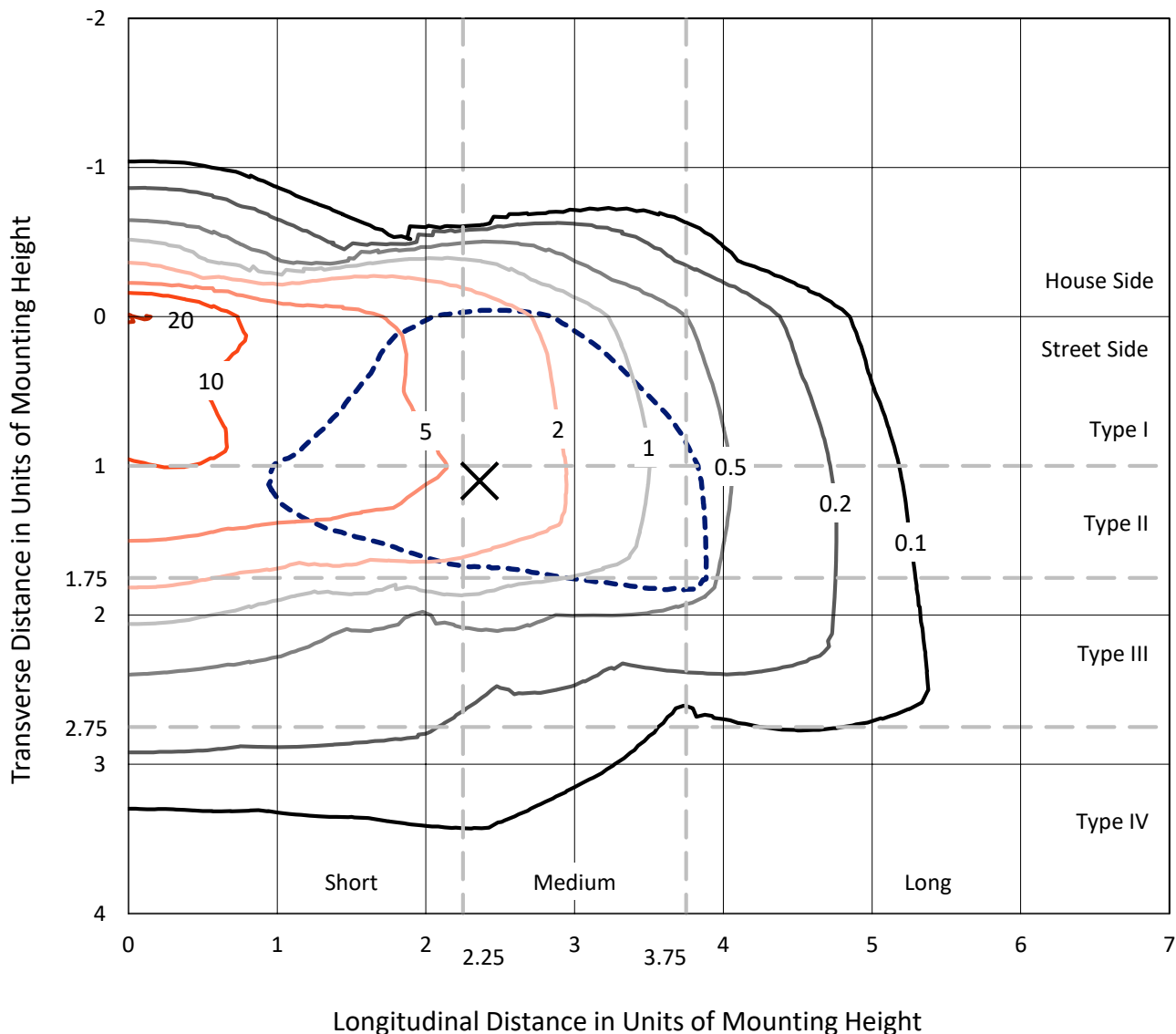
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

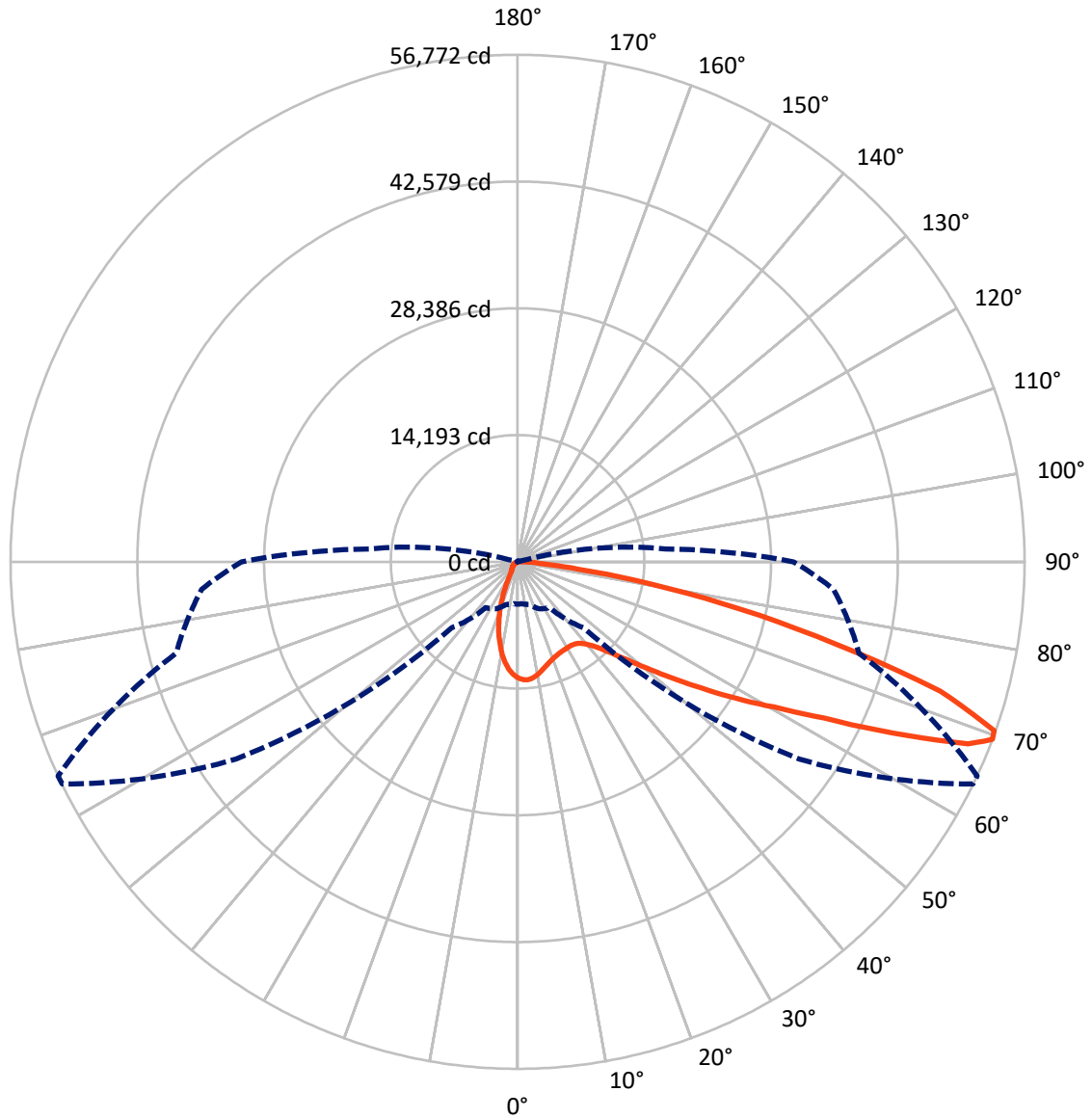
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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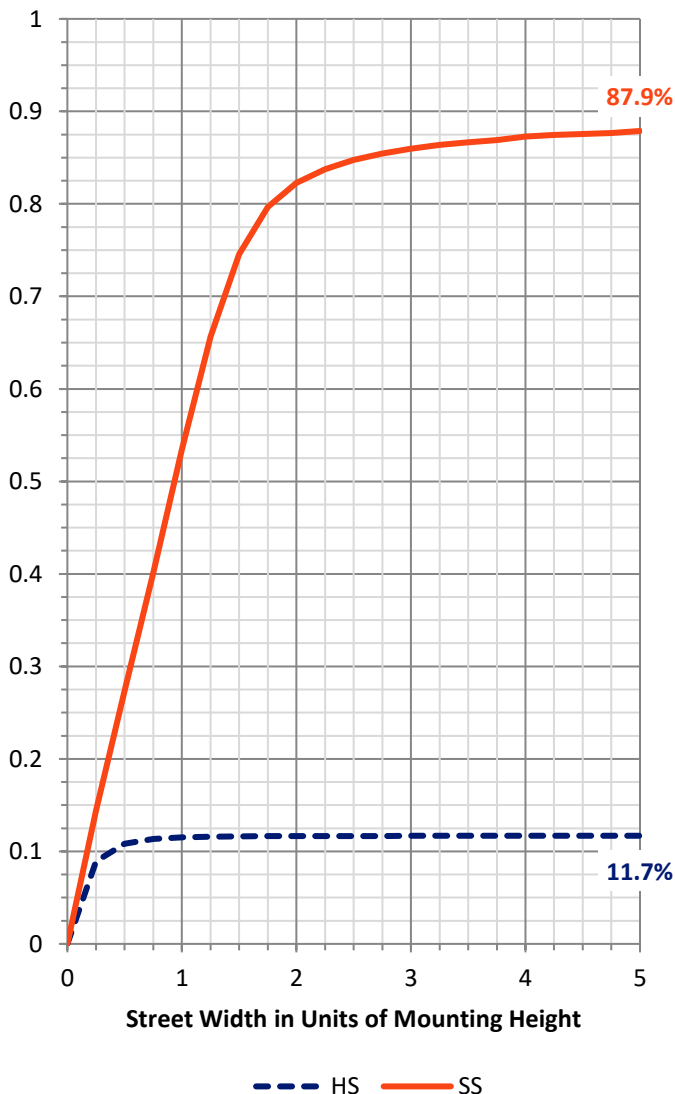
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6071.3	0.0	6071.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	45434.7	0.0	45434.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	51506.0	0.0	51506.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.4	2.1
10°-20°	2382.5	4.6
20°-30°	3299.9	6.4
30°-40°	4601.1	8.9
40°-50°	7151.6	13.9
50°-60°	11481.0	22.3
60°-70°	12987.0	25.2
70°-80°	7627.4	14.8
80°-90°	887.3	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°	51506.0	100.0
0°-180°	51506.0	100.0

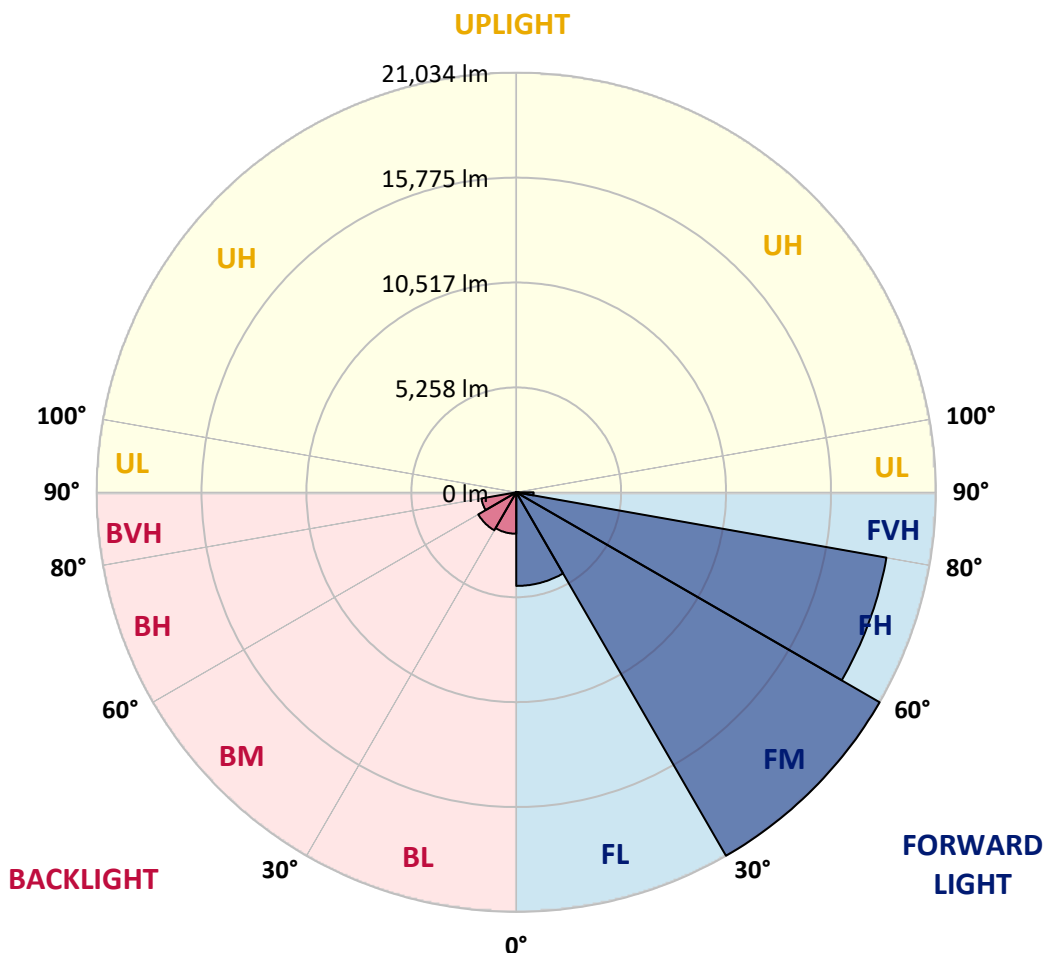


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4693.4	9.1			
FM (30°-60°)	21033.6	40.8			
FH (60°-80°)	18840.4	36.6			G5
FVH (80°-90°)	867.3	1.7			G5
BL (0°-30°)	2077.4	4.0	B3/2500		
BM (30°-60°)	2200.1	4.3	B2/2500		
BH (60°-80°)	1773.9	3.4	B3/2500		G3/2500
BVH (80°-90°)	20.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7
2.5°	13131.2	13098.5	13124.6	13181.3	13209.6	13209.6	13231.4	13205.3	13214.0	13150.8	13059.2
5°	12309.5	12259.4	12331.3	12490.4	12686.6	12854.4	13102.8	13233.6	13246.7	13248.9	13142.1
7.5°	11424.7	11378.9	11485.7	11673.1	11925.9	12237.6	12671.3	13050.5	13072.3	13277.2	13198.7
10°	10705.4	10672.8	10797.0	10997.5	11293.9	11642.6	12174.4	12701.8	12765.0	13218.3	13190.0
12.5°	10134.4	10108.3	10226.0	10457.0	10759.9	11145.7	11701.5	12313.9	12398.9	13085.4	13146.4
15°	9718.2	9713.8	9811.9	10034.2	10369.8	10729.4	11298.3	11954.3	12052.3	12941.6	13139.9
17.5°	9500.2	9506.7	9578.7	9768.3	10056.0	10413.4	10958.3	11651.3	11758.1	12813.0	13172.6
20°	9478.4	9485.0	9524.2	9631.0	9864.2	10180.2	10681.5	11396.3	11507.5	12717.1	13224.9
22.5°	9670.2	9665.8	9676.7	9665.8	9796.6	10036.4	10498.4	11200.2	11328.8	12653.9	13266.3
25°	10038.5	10032.0	10027.6	9947.0	9859.8	9988.4	10422.1	11089.0	11211.1	12608.1	13290.3
27.5°	10550.7	10546.3	10539.8	10406.9	10145.3	10064.7	10430.8	11047.6	11150.0	12571.0	13285.9
30°	11224.2	11254.7	11245.9	11060.7	10653.1	10297.9	10522.4	11025.8	11115.2	12499.1	13240.1
32.5°	12015.3	12076.3	12124.3	11925.9	11415.9	10759.9	10733.8	11049.8	11115.2	12444.6	13157.3
35°	12836.9	12915.4	13091.9	13022.2	12350.9	11455.2	11097.7	11193.6	11248.1	12475.2	13118.1
37.5°	13645.5	13739.2	14122.8	14325.5	13575.8	12374.9	11664.4	11548.9	11577.2	12660.4	13161.7
40°	14584.9	14726.5	15308.4	15635.4	15038.2	13606.3	12512.2	12159.1	12170.0	13068.0	13364.4
42.5°	15818.4	15964.4	16594.3	17106.5	16685.8	15162.4	13663.0	13091.9	13081.0	13830.8	13841.7
45°	17322.2	17474.8	18126.5	18695.3	18505.7	17006.2	15136.3	14454.1	14441.0	15033.8	14746.1
47.5°	19026.6	19177.0	19758.9	20345.1	20550.0	19159.5	17012.8	16313.2	16282.6	16705.5	16143.2
50°	20489.0	20587.1	21123.2	21912.2	22836.2	21805.4	19346.9	18673.5	18640.8	18926.3	18194.0
52.5°	21020.8	21077.4	21622.3	22727.3	25033.1	25388.4	22413.4	21546.0	21522.0	21646.3	20924.9
55°	19944.1	20046.6	20715.6	22354.6	26223.1	29437.8	26284.1	25102.9	24922.0	24653.9	23779.9
57.5°	17010.6	17174.0	17893.3	20072.7	25667.3	32650.3	31972.5	29126.1	28860.2	27221.3	26101.1
60°	12745.4	12945.9	13543.1	15894.7	22701.1	33794.5	38188.3	33609.2	33009.9	29265.6	28234.7
62.5°	8746.1	8846.4	9251.8	10783.9	16718.5	31920.2	43388.4	39613.6	38519.5	31488.6	30542.8
65°	6680.0	6714.9	6880.5	7407.9	9955.7	25928.9	45456.7	47535.9	46213.0	34147.6	32938.0
67.5°	5383.2	5354.9	5583.7	6337.8	6666.9	15818.4	43044.1	55031.0	54412.1	37702.3	35348.4
69°	4746.8	4707.6	4940.8	5816.9	6261.6	10457.0	38480.3	56733.2	56772.4	39578.8	35514.1
70°	4271.7	4297.9	4528.9	5507.5	6124.2	8207.8	34121.4	56299.5	56609.0	40280.5	34520.3
72.5°	2852.9	2922.6	3386.9	4572.5	5888.9	6211.4	20602.3	48311.8	49501.8	38700.4	29616.5
75°	1608.4	1660.7	2212.1	3447.9	5548.9	5915.0	10882.0	35592.5	36743.3	32362.6	22838.4
77.5°	789.0	817.3	1251.0	2225.2	4640.0	5636.0	6172.2	24176.6	25490.8	21123.2	12917.6
80°	333.5	348.7	625.5	1373.1	3317.1	5378.9	4583.4	14879.1	15042.5	8275.4	3441.3
82.5°	128.6	132.9	263.7	856.5	2107.5	4193.3	3833.6	7054.9	6884.9	1558.3	784.6
85°	15.3	17.4	95.9	514.3	1172.5	2157.7	3114.4	3040.3	2813.7	309.5	403.2
87.5°	0.0	0.0	6.5	156.9	348.7	1011.3	1619.3	1261.9	1137.7	100.3	209.2
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°	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7	13015.7
2.5°	12983.0	12961.2	12843.5	12673.5	12512.2	12311.7	12119.9	12004.4	11912.9	11851.8	11923.8
5°	13017.8	12921.9	12564.5	12106.8	11657.9	11152.2	10681.5	10282.6	10125.7	9951.4	10029.8
7.5°	13006.9	12826.0	12183.1	11368.0	10544.2	9692.0	8885.6	8264.5	7941.9	7625.9	7706.5
10°	12952.5	12647.3	11673.1	10465.7	9232.1	8007.3	6863.1	5993.5	5507.5	5067.2	5130.4
12.5°	12832.6	12407.6	11071.6	9432.6	7782.8	6167.8	4827.5	3713.8	3116.6	2852.9	2885.6
15°	12760.7	12174.4	10435.2	8386.5	6235.4	4295.7	2951.0	2194.7	1922.3	1835.1	1846.0
17.5°	12725.8	11949.9	9777.0	7190.0	4653.1	2735.2	1907.0	1682.5	1623.7	1608.4	1612.8
20°	12690.9	11723.2	9099.2	6006.6	3206.0	1839.5	1567.0	1501.6	1479.8	1460.2	1464.6
22.5°	12632.1	11505.3	8371.3	4807.9	2162.0	1492.9	1412.3	1349.1	1303.3	1279.3	1283.7
25°	12560.2	11276.5	7628.1	3580.8	1577.9	1331.6	1255.4	1166.0	1111.5	1067.9	1070.1
27.5°	12444.6	10995.3	6860.9	2606.6	1325.1	1192.2	1089.7	991.6	900.1	850.0	850.0
30°	12283.4	10677.1	6008.7	1865.6	1187.8	1054.9	930.6	808.6	710.5	664.7	660.4
32.5°	12104.6	10345.8	5147.9	1414.5	1078.8	926.3	784.6	656.0	568.8	531.8	529.6
35°	11952.1	9988.4	4289.2	1185.6	969.9	802.0	647.3	538.3	468.6	438.1	435.9
37.5°	11854.0	9631.0	3452.2	1059.2	871.8	686.5	542.7	444.6	394.5	370.5	368.3
40°	11838.8	9365.1	2687.3	963.3	780.2	584.1	453.3	377.0	331.3	305.1	302.9
42.5°	12037.1	9212.5	2061.8	882.7	686.5	494.7	385.8	322.6	274.6	248.5	246.3
45°	12558.0	9260.5	1586.6	810.8	592.8	418.5	326.9	268.1	224.5	204.9	200.5
47.5°	13508.2	9591.7	1261.9	738.8	503.5	355.2	279.0	222.3	185.3	165.6	163.5
50°	15199.5	10369.8	1054.9	660.4	420.6	302.9	231.0	180.9	150.4	132.9	130.8
52.5°	17444.3	11755.9	941.5	584.1	348.7	257.2	189.6	143.8	117.7	104.6	102.4
55°	19920.1	13434.1	867.4	501.3	285.5	213.6	150.4	113.3	91.5	80.6	76.3
57.5°	22337.2	14887.8	797.7	420.6	237.6	174.4	119.9	89.4	71.9	61.0	58.8
60°	24558.0	16223.8	717.0	337.8	194.0	137.3	93.7	69.7	56.7	45.8	45.8
62.5°	26935.8	17256.9	605.9	263.7	159.1	104.6	76.3	63.2	45.8	39.2	37.1
65°	29455.2	18024.0	475.1	204.9	124.2	78.5	63.2	65.4	37.1	28.3	26.2
67.5°	31316.5	17871.5	350.9	161.3	95.9	61.0	61.0	69.7	32.7	21.8	19.6
69°	30906.7	16631.4	294.2	139.5	82.8	52.3	56.7	69.7	30.5	19.6	17.4
70°	29718.9	15258.3	259.4	124.2	74.1	47.9	54.5	67.6	28.3	19.6	17.4
72.5°	24749.8	11492.2	202.7	93.7	58.8	39.2	45.8	58.8	28.3	19.6	15.3
75°	18616.8	7355.6	154.7	67.6	43.6	30.5	34.9	43.6	28.3	17.4	15.3
77.5°	10130.1	2652.4	111.2	45.8	30.5	24.0	24.0	32.7	26.2	13.1	8.7
80°	2604.4	666.9	69.7	30.5	24.0	17.4	15.3	21.8	15.3	2.2	0.0
82.5°	642.9	150.4	37.1	21.8	17.4	6.5	6.5	10.9	6.5	0.0	0.0
85°	353.1	74.1	24.0	15.3	8.7	0.0	0.0	2.2	0.0	0.0	0.0
87.5°	180.9	21.8	6.5	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)