

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: P323221

Luminaire Tested: **GAN-SA7D-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323221
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-SA7D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 45457 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

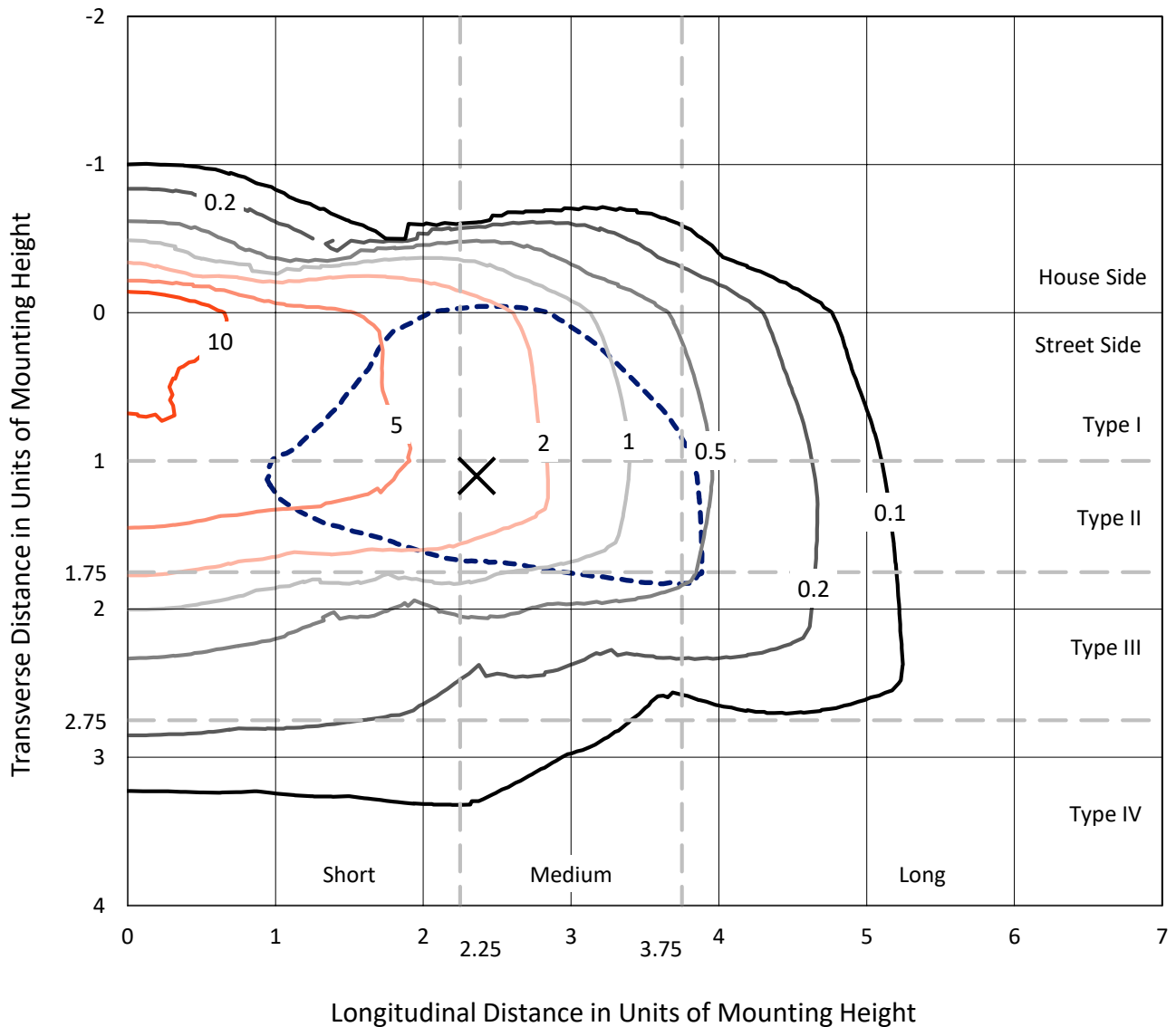
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

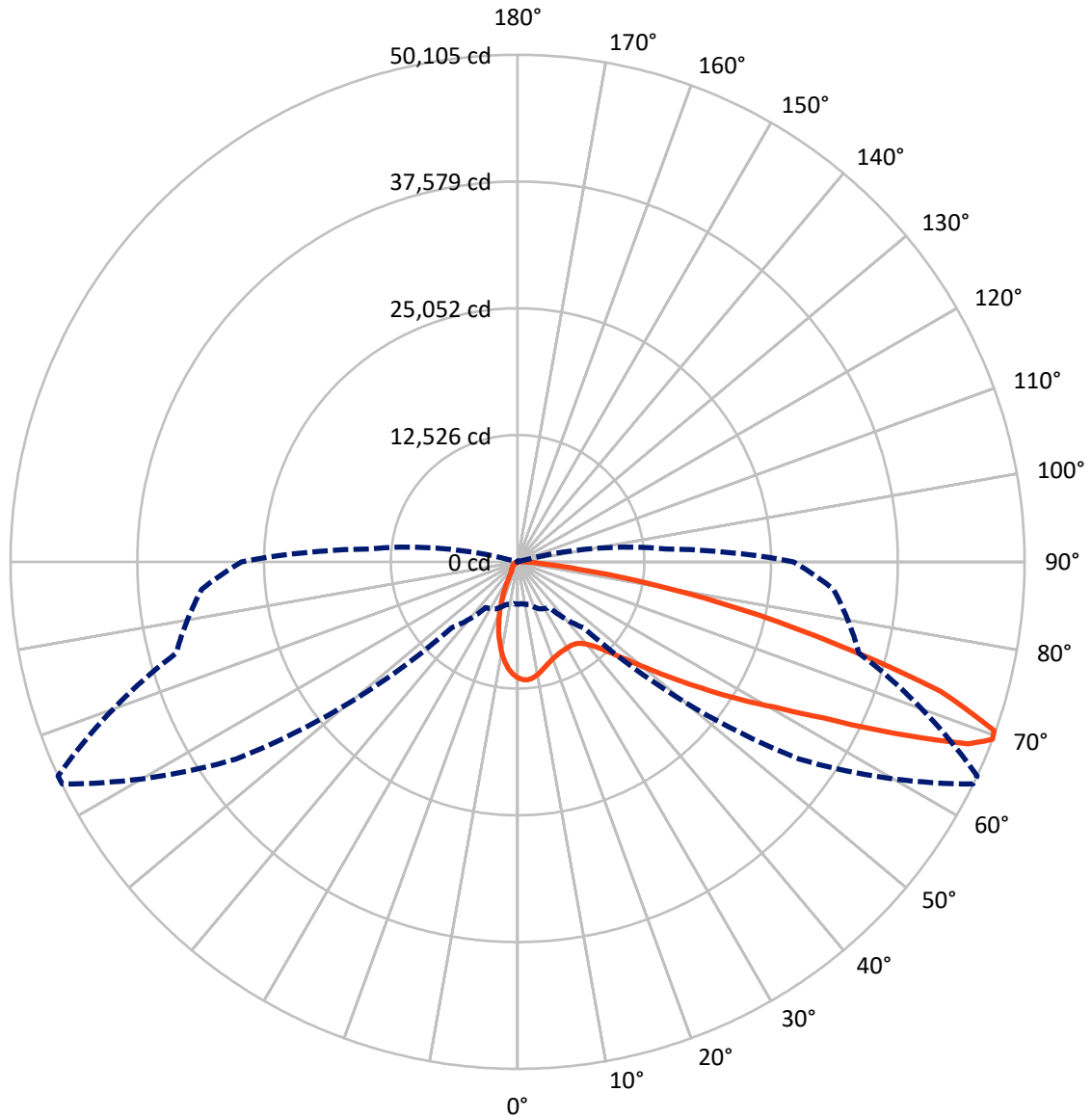
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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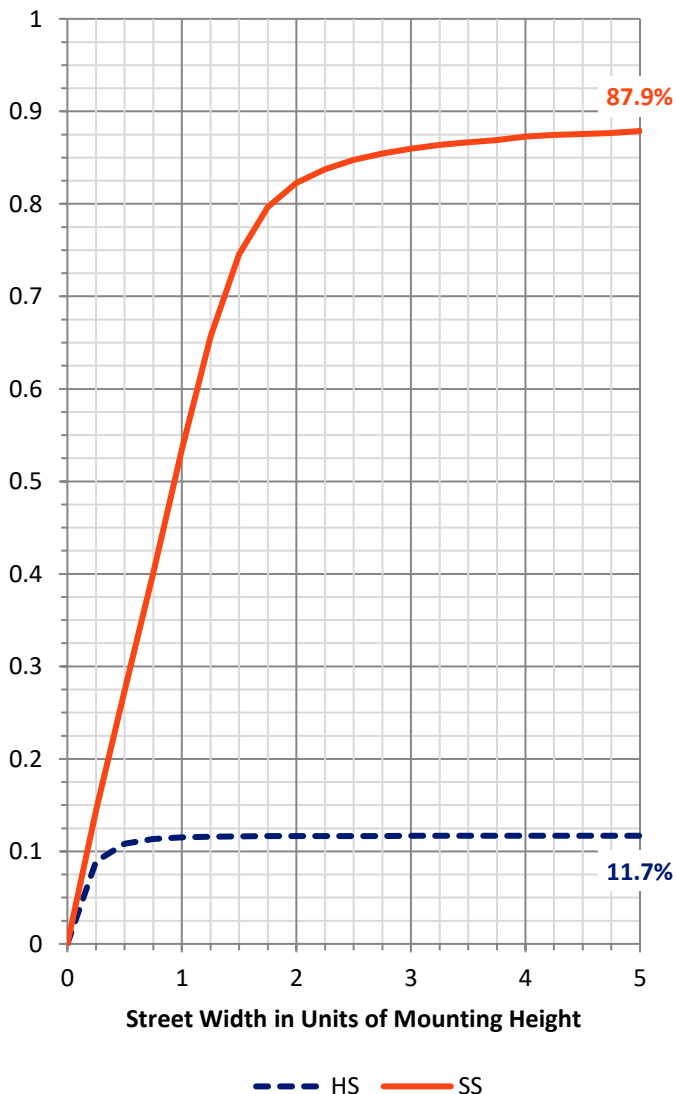
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5358.3	0.0	5358.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	40098.7	0.0	40098.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	45457.0	0.0	45457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.6	2.1
10°-20°	2102.7	4.6
20°-30°	2912.3	6.4
30°-40°	4060.7	8.9
40°-50°	6311.7	13.9
50°-60°	10132.7	22.3
60°-70°	11461.7	25.2
70°-80°	6731.6	14.8
80°-90°	783.1	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°	45457.0	100.0
0°-180°	45457.0	100.0

Coefficient of Utilization

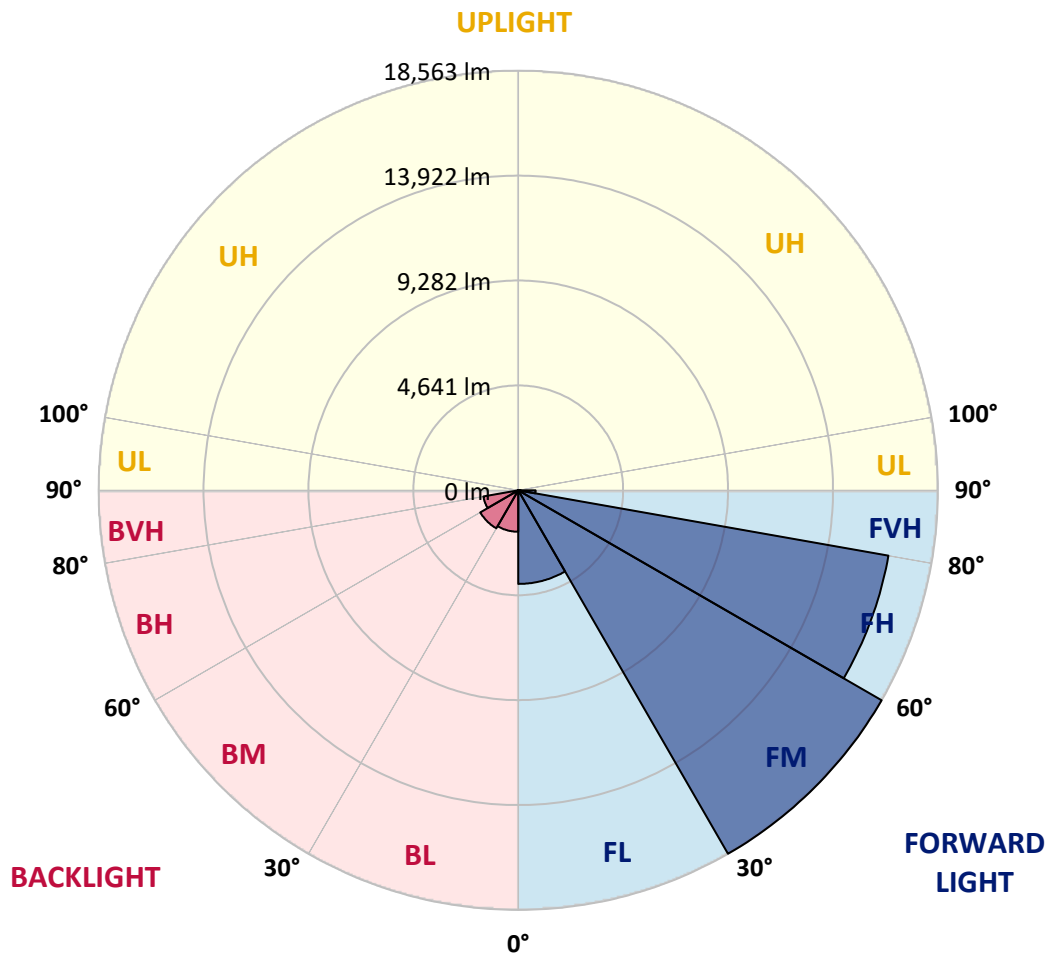


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4142.2	9.1			
FM (30°-60°)	18563.3	40.8			
FH (60°-80°)	16627.7	36.6			G5
FVH (80°-90°)	765.4	1.7			G5
BL (0°-30°)	1833.4	4.0	B3/2500		
BM (30°-60°)	1941.7	4.3	B2/2500		
BH (60°-80°)	1565.6	3.4	B3/2500		G3/2500
BVH (80°-90°)	17.6	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°	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1
2.5°	11589.0	11560.2	11583.2	11633.2	11658.3	11658.3	11677.5	11654.4	11662.1	11606.3	11525.5
5°	10863.9	10819.6	10883.1	11023.5	11196.6	11344.7	11564.0	11679.4	11691.0	11692.9	11598.6
7.5°	10082.9	10042.5	10136.8	10302.2	10525.3	10800.4	11183.2	11517.8	11537.1	11717.9	11648.6
10°	9448.2	9419.3	9529.0	9705.9	9967.5	10275.3	10744.6	11210.1	11265.9	11665.9	11640.9
12.5°	8944.2	8921.1	9025.0	9228.9	9496.3	9836.7	10327.2	10867.7	10942.7	11548.6	11602.5
15°	8576.8	8573.0	8659.5	8855.7	9152.0	9469.3	9971.4	10550.3	10636.9	11421.7	11596.7
17.5°	8384.5	8390.2	8453.7	8621.1	8875.0	9190.4	9671.3	10283.0	10377.2	11308.2	11625.6
20°	8365.2	8371.0	8405.6	8499.9	8705.7	8984.6	9427.0	10057.9	10156.0	11223.5	11671.7
22.5°	8534.5	8530.7	8540.3	8530.7	8646.1	8857.7	9265.4	9884.8	9998.3	11167.8	11708.3
25°	8859.6	8853.8	8850.0	8778.8	8701.9	8815.3	9198.1	9786.7	9894.4	11127.4	11729.4
27.5°	9311.6	9307.8	9302.0	9184.6	8953.8	8882.7	9205.8	9750.2	9840.6	11094.7	11725.6
30°	9906.0	9932.9	9925.2	9761.7	9402.0	9088.5	9286.6	9730.9	9809.8	11031.2	11685.2
32.5°	10604.2	10658.0	10700.4	10525.3	10075.2	9496.3	9473.2	9752.1	9809.8	10983.1	11612.1
35°	11329.3	11398.6	11554.4	11492.8	10900.4	10109.8	9794.4	9879.0	9927.1	11010.0	11577.5
37.5°	12043.0	12125.7	12464.2	12643.1	11981.4	10921.6	10294.5	10192.6	10217.6	11173.5	11615.9
40°	12872.0	12997.0	13510.6	13799.1	13272.1	12008.3	11042.7	10731.1	10740.8	11533.2	11794.8
42.5°	13960.7	14089.5	14645.4	15097.4	14726.2	13381.7	12058.3	11554.4	11544.8	12206.4	12216.1
45°	15287.9	15422.5	15997.6	16499.7	16332.3	15009.0	13358.6	12756.6	12745.0	13268.2	13014.3
47.5°	16792.0	16924.8	17438.3	17955.7	18136.6	16909.4	15014.7	14397.3	14370.4	14743.5	14247.3
50°	18082.7	18169.3	18642.4	19338.7	20154.3	19244.5	17074.8	16480.4	16451.6	16703.6	16057.3
52.5°	18552.0	18602.0	19082.9	20058.1	22093.2	22406.7	19781.1	19015.6	18994.4	19104.1	18467.4
55°	17601.8	17692.2	18282.7	19729.2	23143.4	25980.5	23197.3	22154.7	21995.1	21758.5	20987.2
57.5°	15012.8	15157.1	15791.8	17715.3	22652.9	28815.8	28217.6	25705.5	25470.8	24024.4	23035.7
60°	11248.6	11425.5	11952.5	14028.0	20035.0	29825.6	33703.3	29662.1	29133.1	25828.6	24918.8
62.5°	7719.0	7807.4	8165.2	9517.4	14755.1	28171.4	38292.8	34961.3	33995.7	27790.5	26955.7
65°	5895.5	5926.3	6072.4	6537.9	8786.5	22883.7	40118.2	41953.2	40785.6	30137.2	29069.7
67.5°	4751.0	4726.0	4928.0	5593.5	5883.9	13960.7	37988.9	48568.0	48021.8	33274.4	31197.0
69°	4189.4	4154.7	4360.5	5133.8	5526.2	9228.9	33961.1	50070.3	50104.9	34930.5	31343.2
70°	3770.0	3793.1	3997.0	4860.7	5405.0	7243.9	30114.1	49687.5	49960.6	35549.9	30466.1
72.5°	2517.8	2579.4	2989.1	4035.5	5197.3	5481.9	18182.7	42637.9	43688.2	34155.4	26138.3
75°	1419.5	1465.7	1952.3	3043.0	4897.2	5220.3	9604.0	31412.5	32428.1	28561.9	20156.2
77.5°	696.3	721.3	1104.1	1963.9	4095.1	4974.1	5447.3	21337.2	22497.1	18642.4	11400.5
80°	294.3	307.8	552.0	1211.8	2927.5	4747.2	4045.1	13131.6	13275.9	7303.5	3037.2
82.5°	113.5	117.3	232.7	755.9	1860.0	3700.8	3383.4	6226.3	6076.3	1375.3	692.5
85°	13.5	15.4	84.6	453.9	1034.8	1904.3	2748.7	2683.3	2483.2	273.1	355.8
87.5°	0.0	0.0	5.8	138.5	307.8	892.5	1429.2	1113.7	1004.1	88.5	184.7
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°	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1	11487.1
2.5°	11458.2	11439.0	11335.1	11185.1	11042.7	10865.8	10696.5	10594.6	10513.8	10459.9	10523.4
5°	11489.0	11404.4	11088.9	10685.0	10288.7	9842.5	9427.0	9075.0	8936.5	8782.6	8851.9
7.5°	11479.4	11319.7	10752.3	10032.9	9305.8	8553.7	7842.1	7293.9	7009.2	6730.3	6801.4
10°	11431.3	11162.0	10302.2	9236.6	8147.9	7066.9	6057.1	5289.6	4860.7	4472.1	4527.9
12.5°	11325.5	10950.4	9771.3	8324.9	6868.8	5443.5	4260.5	3277.6	2750.6	2517.8	2546.7
15°	11262.0	10744.6	9209.7	7401.6	5503.1	3791.2	2604.4	1937.0	1696.5	1619.6	1629.2
17.5°	11231.2	10546.5	8628.8	6345.6	4106.6	2414.0	1683.1	1484.9	1433.0	1419.5	1423.4
20°	11200.5	10346.4	8030.6	5301.1	2829.4	1623.4	1383.0	1325.3	1306.0	1288.7	1292.6
22.5°	11148.5	10154.1	7388.1	4243.2	1908.1	1317.6	1246.4	1190.6	1150.2	1129.1	1132.9
25°	11085.1	9952.1	6732.2	3160.3	1392.6	1175.3	1107.9	1029.1	981.0	942.5	944.4
27.5°	10983.1	9704.0	6055.1	2300.5	1169.5	1052.1	961.7	875.2	794.4	750.2	750.2
30°	10840.8	9423.2	5303.1	1646.5	1048.3	931.0	821.3	713.6	627.1	586.7	582.8
32.5°	10683.0	9130.8	4543.3	1248.3	952.1	817.5	692.5	579.0	502.0	469.3	467.4
35°	10548.4	8815.3	3785.4	1046.4	856.0	707.8	571.3	475.1	413.5	386.6	384.7
37.5°	10461.8	8499.9	3046.8	934.8	769.4	605.9	478.9	392.4	348.2	327.0	325.1
40°	10448.4	8265.2	2371.7	850.2	688.6	515.5	400.1	332.8	292.4	269.3	267.4
42.5°	10623.4	8130.6	1819.6	779.0	605.9	436.6	340.5	284.7	242.4	219.3	217.4
45°	11083.1	8172.9	1400.3	715.5	523.2	369.3	288.5	236.6	198.1	180.8	177.0
47.5°	11921.8	8465.3	1113.7	652.1	444.3	313.5	246.2	196.2	163.5	146.2	144.3
50°	13414.4	9152.0	931.0	582.8	371.2	267.4	203.9	159.6	132.7	117.3	115.4
52.5°	15395.6	10375.3	830.9	515.5	307.8	227.0	167.3	127.0	103.9	92.3	90.4
55°	17580.7	11856.4	765.5	442.4	252.0	188.5	132.7	100.0	80.8	71.2	67.3
57.5°	19713.8	13139.3	704.0	371.2	209.7	153.9	105.8	78.9	63.5	53.9	51.9
60°	21673.8	14318.4	632.8	298.1	171.2	121.2	82.7	61.6	50.0	40.4	40.4
62.5°	23772.4	15230.2	534.7	232.7	140.4	92.3	67.3	55.8	40.4	34.6	32.7
65°	25995.9	15907.2	419.3	180.8	109.6	69.2	55.8	57.7	32.7	25.0	23.1
67.5°	27638.6	15772.6	309.7	142.3	84.6	53.9	53.9	61.6	28.9	19.2	17.3
69°	27277.0	14678.1	259.7	123.1	73.1	46.2	50.0	61.6	26.9	17.3	15.4
70°	26228.7	13466.3	228.9	109.6	65.4	42.3	48.1	59.6	25.0	17.3	15.4
72.5°	21843.1	10142.5	178.9	82.7	51.9	34.6	40.4	51.9	25.0	17.3	13.5
75°	16430.4	6491.8	136.6	59.6	38.5	26.9	30.8	38.5	25.0	15.4	13.5
77.5°	8940.4	2340.9	98.1	40.4	26.9	21.2	21.2	28.9	23.1	11.5	7.7
80°	2298.6	588.6	61.6	26.9	21.2	15.4	13.5	19.2	13.5	1.9	0.0
82.5°	567.4	132.7	32.7	19.2	15.4	5.8	5.8	9.6	5.8	0.0	0.0
85°	311.6	65.4	21.2	13.5	7.7	0.0	0.0	1.9	0.0	0.0	0.0
87.5°	159.6	19.2	5.8	3.8	1.9	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)