

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: P268841

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43932.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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: 28.75 FT

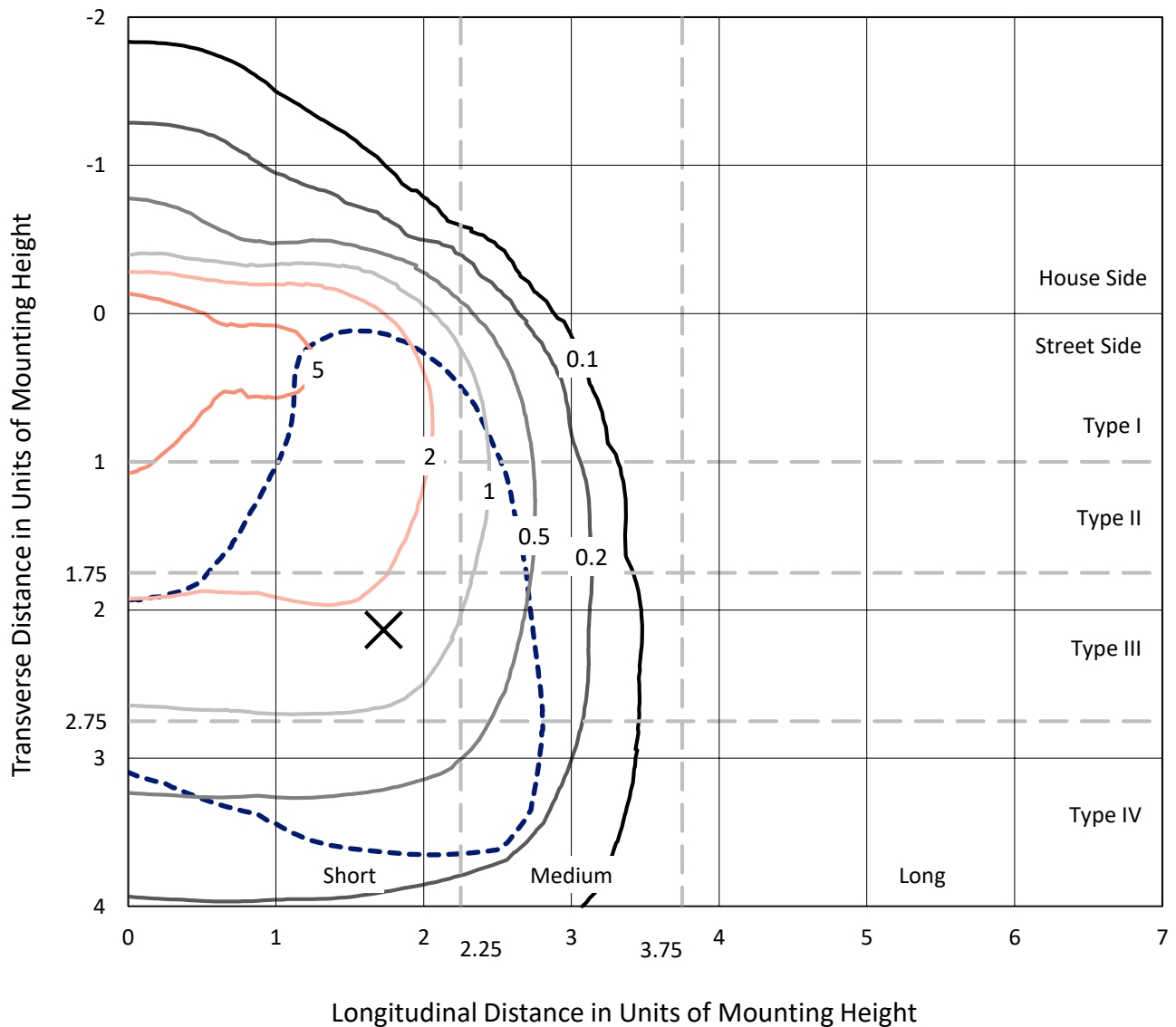


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

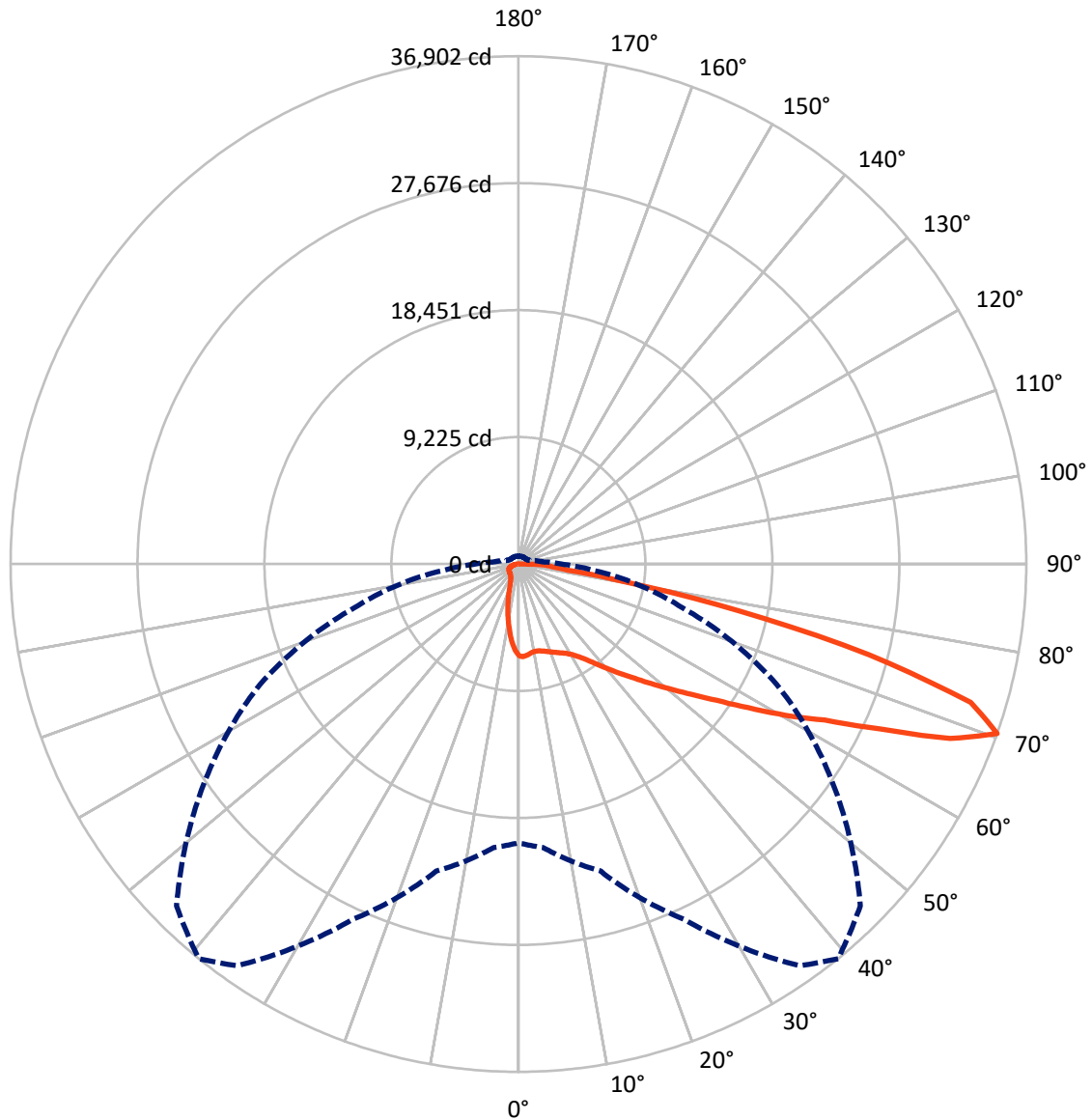


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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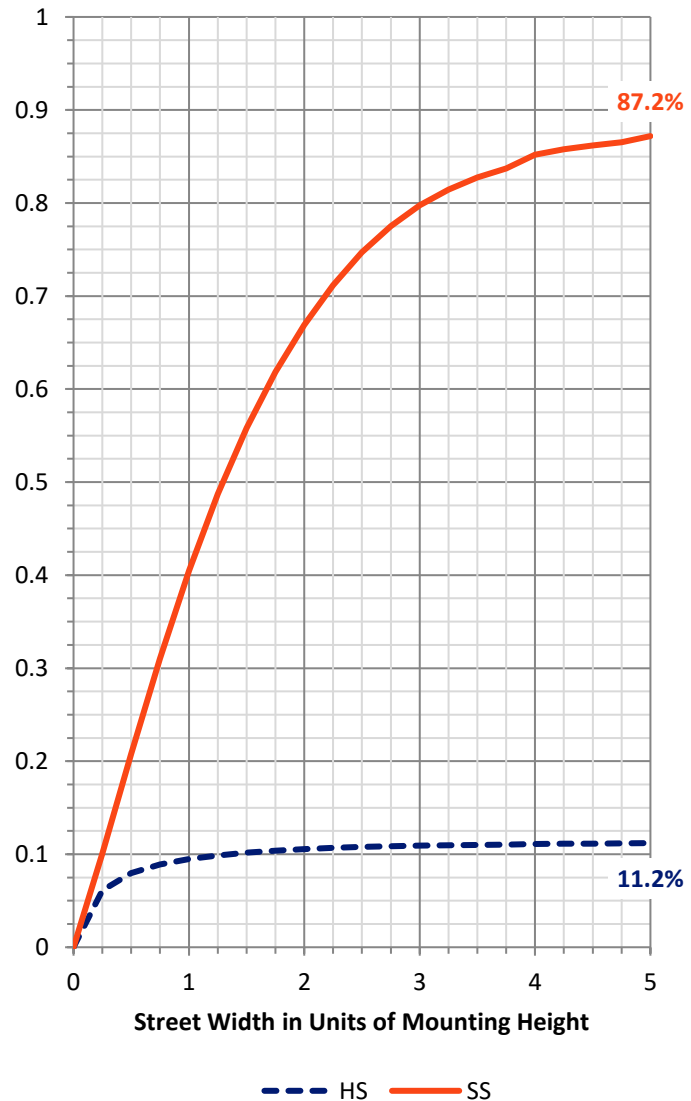
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4996.5	0.0	4996.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	38935.5	0.0	38935.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	43932.1	0.0	43932.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.4	1.3
10°-20°	1430.7	3.3
20°-30°	2227.7	5.1
30°-40°	3470.3	7.9
40°-50°	5826.1	13.3
50°-60°	9255.2	21.1
60°-70°	12345.4	28.1
70°-80°	7455.1	17.0
80°-90°	1349.3	3.1
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°	43932.1	100.0
0°-180°	43932.1	100.0

Coefficient of Utilization



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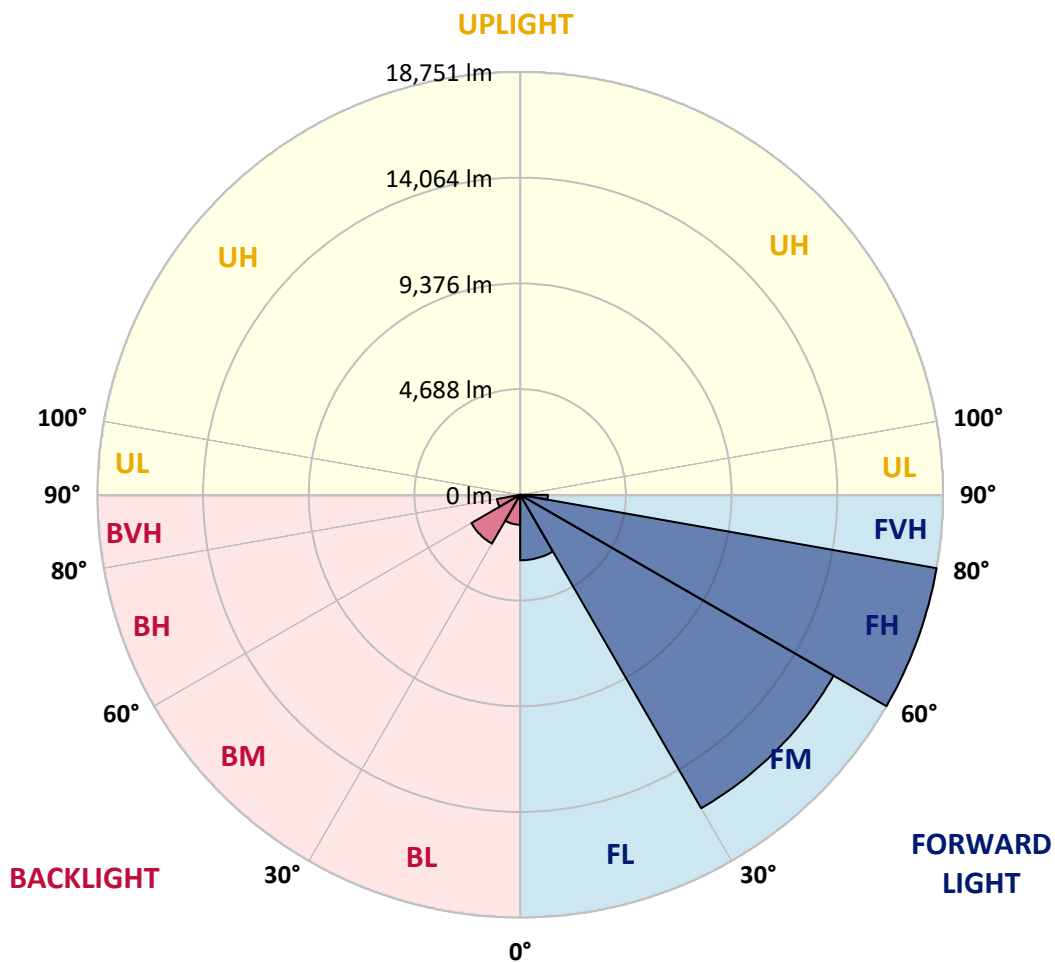
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2905.3	6.6			
FM	(30°-60°)	16051.1	36.5			
FH	(60°-80°)	18751.5	42.7			G5
FVH	(80°-90°)	1227.7	2.8			G5
BL	(0°-30°)	1325.5	3.0	B3/2500		
BM	(30°-60°)	2500.5	5.7	B3/5000		
BH	(60°-80°)	1049.0	2.4	B3/2500		G3/2500
BVH	(80°-90°)	121.6	0.3			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6
2.5°	6799.1	6796.8	6779.0	6765.7	6754.4	6750.0	6758.8	6725.4	6696.3	6660.7	6622.7
5°	6747.8	6745.6	6716.4	6689.7	6662.9	6653.9	6651.7	6591.5	6555.7	6502.0	6430.5
7.5°	6692.0	6680.8	6642.7	6598.1	6551.2	6528.8	6506.6	6428.4	6388.1	6334.5	6251.8
10°	6633.9	6620.4	6584.7	6540.0	6495.4	6461.9	6423.9	6348.0	6305.6	6265.3	6169.2
12.5°	6573.5	6562.4	6553.5	6533.4	6502.0	6472.9	6444.0	6379.3	6334.5	6287.6	6175.9
15°	6564.6	6560.1	6580.3	6593.6	6575.8	6557.8	6526.6	6470.9	6423.9	6377.0	6231.8
17.5°	6636.0	6633.9	6685.1	6720.9	6712.0	6680.8	6638.4	6575.8	6537.8	6497.6	6316.6
20°	6792.4	6803.7	6866.1	6913.0	6868.4	6823.6	6754.4	6667.3	6647.3	6629.3	6403.7
22.5°	7087.3	7098.4	7143.1	7161.0	7044.8	6980.0	6884.0	6772.3	6758.8	6772.3	6508.8
25°	7547.4	7536.2	7529.6	7462.5	7250.3	7149.8	7026.9	6910.8	6917.5	6977.9	6656.3
27.5°	8157.1	8096.9	8003.0	7802.0	7464.7	7353.0	7203.4	7096.3	7138.7	7254.8	6877.3
30°	8789.2	8722.3	8505.6	8177.4	7746.2	7623.3	7455.8	7335.2	7446.9	7630.1	7172.2
32.5°	9374.5	9365.5	9048.4	8626.2	8134.8	8027.7	7860.1	7723.8	7904.7	8184.0	7614.5
35°	10013.2	10033.3	9653.6	9146.6	8659.8	8548.0	8427.4	8324.8	8565.9	8950.2	8255.5
37.5°	10696.7	10737.0	10288.0	9716.2	9258.3	9211.4	9140.0	9095.2	9468.2	9999.9	9151.2
40°	11610.4	11570.1	10946.9	10359.6	9993.1	9990.9	9968.6	10022.2	10643.2	11371.4	10301.5
42.5°	12588.7	12470.4	11646.0	11049.7	10799.6	10875.5	10920.2	11139.1	12057.1	13037.6	11704.1
45°	13642.9	13377.1	12371.9	11780.1	11695.3	11856.0	12008.0	12483.7	13721.2	14934.0	13240.8
47.5°	14485.0	14228.2	13122.5	12546.2	12731.6	12975.1	13267.6	14020.3	15583.9	16892.8	14757.4
50°	15148.4	14980.9	13879.7	13439.6	13873.0	14248.2	14726.3	15760.4	17522.7	18800.4	16162.5
52.5°	15791.7	15666.6	14643.6	14355.5	15213.2	15731.4	16381.3	17627.7	19510.6	20676.6	17344.0
55°	16372.4	16283.0	15465.5	15496.8	16790.1	17464.7	18282.1	19754.1	21677.2	22349.6	18344.6
57.5°	17026.8	16912.8	16403.7	16928.6	18816.0	19691.6	20754.7	22144.1	23709.9	23837.2	19106.3
60°	17685.8	17587.5	17444.5	18581.4	21389.2	22309.3	23316.6	24460.3	25771.5	24991.9	19061.7
62.5°	18257.5	18268.7	18521.2	20317.0	23908.6	24974.0	26202.5	27332.8	27636.5	25193.0	17652.2
65°	19227.0	19403.4	20156.1	22773.9	27455.5	28880.7	30388.4	30207.5	28152.5	23314.5	14630.2
67.5°	20379.5	20689.9	22215.5	26048.4	31938.5	33830.3	34413.3	30857.4	26086.4	18952.3	10428.8
70°	20263.3	20689.9	23104.4	28489.7	35632.9	36901.6	35132.5	27926.9	20714.6	12380.9	5539.4
72.5°	17993.9	18603.8	21293.1	27370.6	34469.1	34357.5	30500.1	20819.5	12307.1	4971.9	2164.3
75°	13714.5	14330.9	16644.9	21623.6	27243.3	26305.2	21641.4	11500.9	4670.5	1974.6	1364.7
77.5°	7889.2	8367.2	10154.0	13261.0	17283.7	16321.0	12045.9	5114.9	2273.8	1375.9	1065.4
80°	4404.7	4670.5	5756.0	6727.6	8469.8	7764.1	5389.7	3178.5	1697.5	998.5	821.9
82.5°	3482.2	3719.0	4654.8	4243.9	3868.6	3569.3	3095.7	2830.0	1355.8	629.9	491.5
85°	3042.2	3267.8	3940.1	3341.4	2642.4	2423.4	2515.1	2785.4	1054.3	379.8	419.9
87.5°	2818.8	3120.4	3511.2	2575.4	2057.2	1822.7	2320.7	3053.3	339.5	236.8	169.8
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°	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6	6669.6
2.5°	6589.2	6553.5	6495.4	6444.0	6363.6	6321.2	6274.2	6240.7	6213.9	6191.6	6227.3
5°	6386.0	6318.9	6196.1	6064.3	5908.0	5785.1	5682.3	5586.3	5519.2	5474.6	5505.8
7.5°	6193.9	6084.4	5892.3	5653.3	5385.2	5157.3	4969.9	4804.6	4690.6	4616.8	4645.9
10°	6084.4	5948.0	5651.1	5275.7	4880.4	4525.3	4230.5	3975.8	3799.4	3699.0	3714.5
12.5°	6057.6	5881.2	5470.0	4954.2	4413.6	3920.1	3504.6	3151.7	2903.7	2774.1	2778.5
15°	6077.7	5852.1	5300.4	4645.9	3962.5	3339.3	2821.0	2392.1	2104.1	1956.7	1954.4
17.5°	6111.2	5829.7	5121.6	4313.1	3504.6	2780.9	2202.4	1782.4	1527.7	1409.4	1400.5
20°	6146.9	5794.0	4920.6	3953.5	3028.7	2262.7	1724.3	1396.0	1235.2	1170.4	1165.9
22.5°	6198.2	5762.7	4712.9	3573.7	2562.0	1842.8	1418.3	1197.3	1112.3	1078.9	1074.4
25°	6280.9	5747.0	4491.7	3178.5	2142.1	1541.2	1235.2	1098.9	1049.8	1027.4	1025.2
27.5°	6419.4	5769.5	4284.0	2794.3	1800.4	1337.9	1132.5	1049.8	1014.0	994.0	991.6
30°	6598.1	5838.7	4065.2	2430.2	1534.5	1199.4	1069.9	1016.3	987.2	967.1	967.1
32.5°	6895.2	5954.9	3835.1	2115.1	1344.7	1103.4	1023.0	987.2	962.8	947.1	944.7
35°	7333.0	6173.7	3620.7	1853.9	1208.4	1034.2	982.7	955.9	938.1	929.1	929.1
37.5°	7969.6	6519.9	3430.8	1666.3	1125.8	987.2	944.7	924.7	913.5	913.5	913.5
40°	8824.9	6997.8	3276.7	1541.2	1078.9	953.7	915.8	900.1	893.5	895.7	895.7
42.5°	9881.5	7618.9	3174.0	1454.0	1056.4	933.7	895.7	882.2	875.6	873.3	875.6
45°	11085.4	8324.8	3162.8	1389.3	1034.2	920.3	882.2	868.9	855.5	846.6	846.6
47.5°	12255.8	9041.7	3254.4	1367.0	1009.5	904.7	871.0	857.7	837.6	817.5	817.5
50°	13290.1	9651.5	3377.2	1375.9	1000.6	882.2	853.2	846.6	815.3	792.9	790.7
52.5°	14112.0	10120.6	3477.8	1402.8	1009.5	866.7	830.9	833.2	799.6	775.1	772.8
55°	14770.9	10428.8	3450.8	1429.6	1029.6	857.7	810.8	815.3	788.4	763.9	763.9
57.5°	15059.0	10314.9	3153.9	1407.1	1045.4	859.9	795.2	813.1	790.7	768.4	768.4
60°	14440.3	9302.9	2597.7	1308.9	1025.2	853.2	788.4	821.9	819.8	797.3	795.2
62.5°	12568.5	7491.5	2014.7	1163.8	955.9	819.8	770.6	819.8	844.2	837.6	835.3
65°	9687.2	5336.1	1538.9	1007.4	862.2	763.9	723.7	768.4	801.8	810.8	808.6
67.5°	6287.6	3270.0	1186.0	859.9	757.2	699.2	663.4	683.5	690.2	690.2	685.8
70°	3091.2	1760.0	944.7	723.7	650.0	629.9	609.8	598.6	587.4	578.5	578.5
72.5°	1525.5	1150.3	777.4	612.0	560.6	551.6	547.2	533.9	524.9	513.7	509.2
75°	1128.0	935.9	661.2	515.9	482.5	473.5	482.5	471.3	469.0	460.1	455.7
77.5°	927.0	797.3	569.5	442.2	413.2	397.6	411.0	413.2	415.5	402.0	397.6
80°	752.7	674.5	475.7	366.2	339.5	328.3	337.3	355.1	359.6	339.5	330.5
82.5°	542.8	551.6	384.1	285.9	263.6	254.6	272.5	294.9	299.3	270.3	263.6
85°	455.7	460.1	294.9	203.2	180.9	167.5	196.5	218.8	234.5	205.5	198.7
87.5°	189.8	270.3	169.8	113.9	100.5	87.1	105.0	116.2	140.8	129.5	127.3
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)