

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: P323283

Luminaire Tested: **GAN-SA9B-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323283
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-SA9B-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA 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: 42315 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

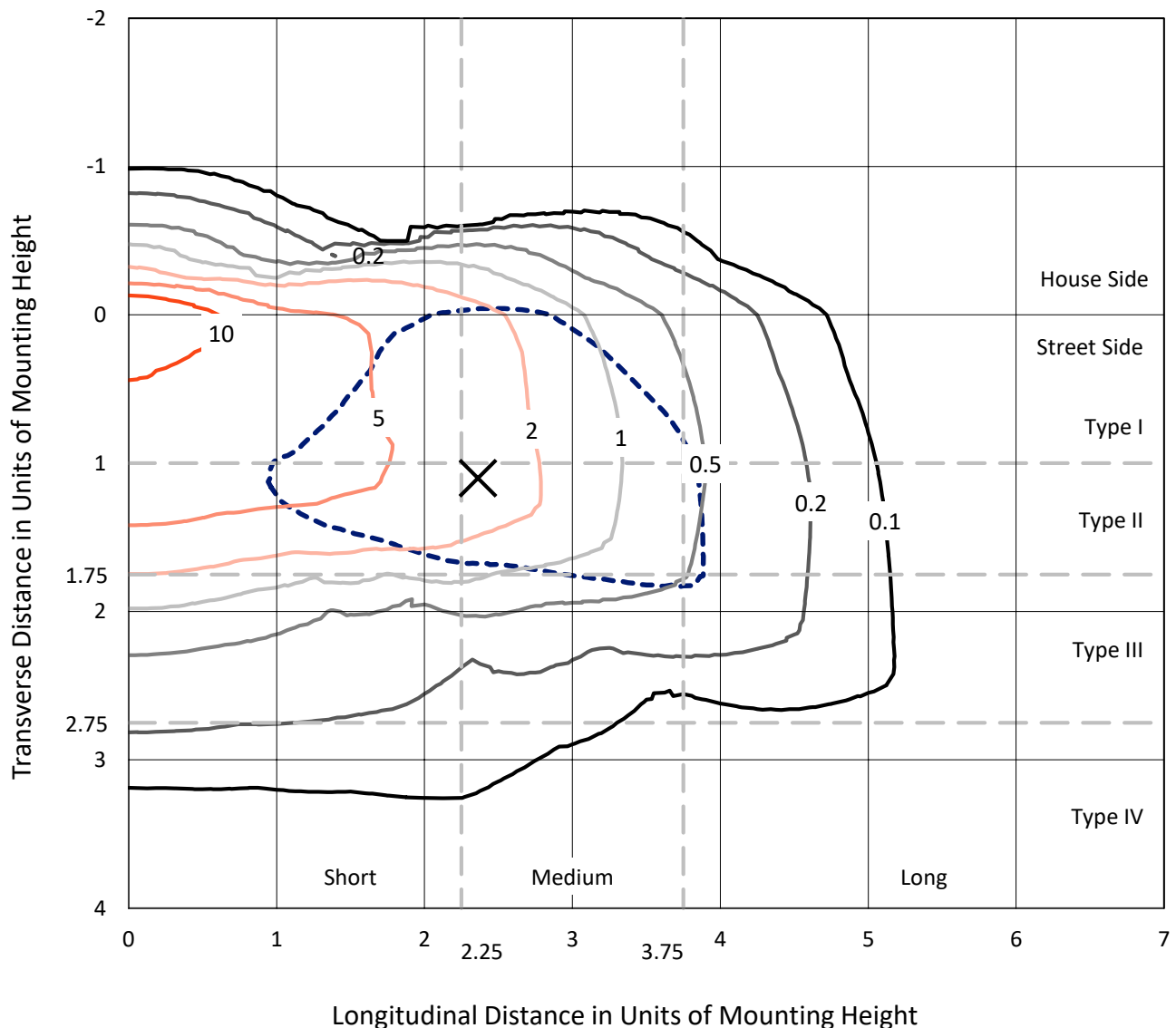
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

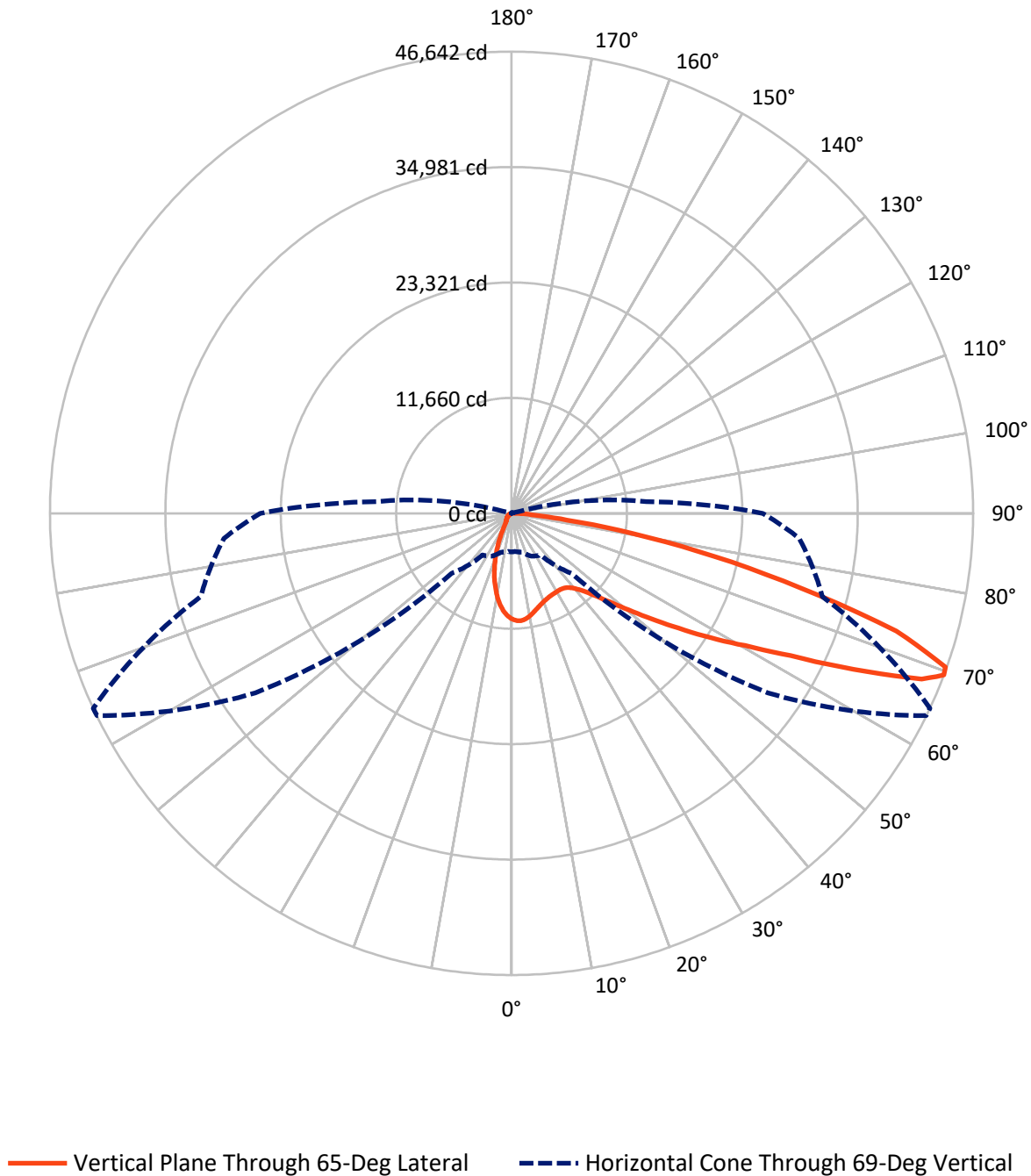
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4987.9	0.0	4987.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	37327.1	0.0	37327.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	42315.0	0.0	42315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.2	2.1
10°-20°	1957.4	4.6
20°-30°	2711.0	6.4
30°-40°	3780.0	8.9
40°-50°	5875.4	13.9
50°-60°	9432.3	22.3
60°-70°	10669.5	25.2
70°-80°	6266.3	14.8
80°-90°	728.9	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°	42315.0	100.0
0°-180°	42315.0	100.0

Coefficient of Utilization



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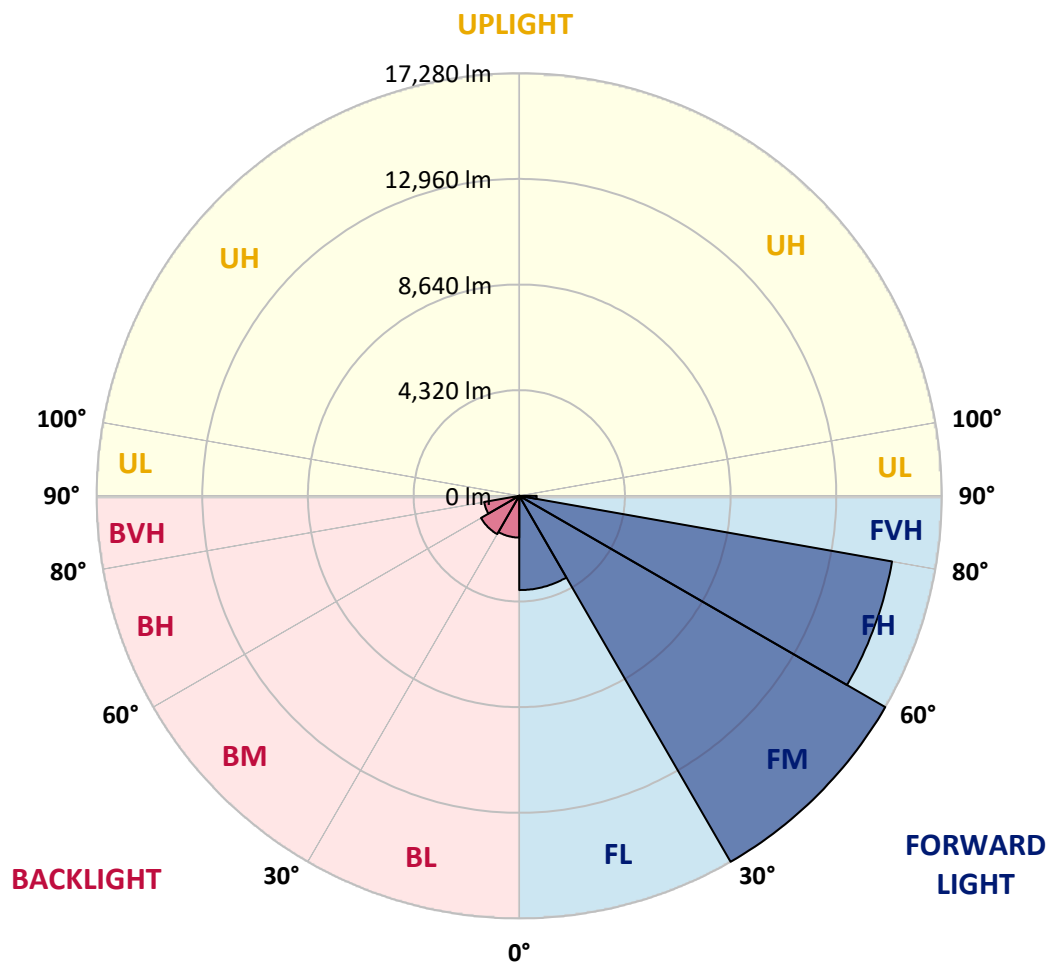
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3855.9	9.1			
FM	(30°-60°)	17280.2	40.8			
FH	(60°-80°)	15478.4	36.6			G5
FVH	(80°-90°)	712.5	1.7			G4/750
BL	(0°-30°)	1706.7	4.0	B3/2500		
BM	(30°-60°)	1807.5	4.3	B2/2500		
BH	(60°-80°)	1457.4	3.4	B3/2500		G3/2500
BVH	(80°-90°)	16.4	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°	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1
2.5°	10788.0	10761.1	10782.6	10829.2	10852.4	10852.4	10870.3	10848.9	10856.0	10804.1	10728.9
5°	10112.9	10071.8	10130.8	10261.6	10422.7	10560.6	10764.7	10872.1	10882.9	10884.7	10796.9
7.5°	9386.0	9348.4	9436.1	9590.1	9797.8	10053.9	10410.2	10721.7	10739.6	10907.9	10843.5
10°	8795.1	8768.2	8870.3	9035.0	9278.6	9565.0	10001.9	10435.2	10487.2	10859.6	10836.3
12.5°	8326.0	8304.5	8401.2	8591.0	8839.9	9156.8	9613.4	10116.5	10186.4	10750.4	10800.5
15°	7984.0	7980.4	8061.0	8243.6	8519.4	8814.8	9282.1	9821.1	9901.7	10632.2	10795.1
17.5°	7804.9	7810.3	7869.4	8025.2	8261.5	8555.2	9002.8	9572.2	9659.9	10526.6	10822.0
20°	7787.0	7792.4	7824.6	7912.4	8104.0	8363.6	8775.4	9362.7	9454.0	10447.8	10865.0
22.5°	7944.6	7941.0	7950.0	7941.0	8048.5	8245.4	8625.0	9201.6	9307.2	10395.8	10899.0
25°	8247.2	8241.8	8238.3	8172.0	8100.4	8206.0	8562.3	9110.2	9210.5	10358.2	10918.7
27.5°	8668.0	8664.4	8659.0	8549.8	8334.9	8268.7	8569.5	9076.2	9160.4	10327.8	10915.1
30°	9221.3	9246.3	9239.2	9087.0	8752.1	8460.3	8644.7	9058.3	9131.7	10268.7	10877.5
32.5°	9871.2	9921.4	9960.7	9797.8	9378.8	8839.9	8818.4	9078.0	9131.7	10224.0	10809.5
35°	10546.3	10610.7	10755.7	10698.4	10147.0	9411.1	9117.4	9196.2	9241.0	10249.0	10777.2
37.5°	11210.5	11287.5	11602.7	11769.2	11153.2	10166.7	9582.9	9488.0	9511.3	10401.2	10813.0
40°	11982.3	12098.6	12576.7	12845.3	12354.7	11178.3	10279.5	9989.4	9998.3	10736.0	10979.6
42.5°	12995.7	13115.7	13633.1	14053.9	13708.3	12456.8	11224.9	10755.7	10746.8	11362.7	11371.7
45°	14231.2	14356.5	14891.9	15359.2	15203.4	13971.5	12435.3	11874.8	11864.1	12351.1	12114.8
47.5°	15631.4	15754.9	16233.0	16714.6	16883.0	15740.6	13976.9	13402.2	13377.1	13724.5	13262.5
50°	16832.8	16913.4	17353.9	18002.0	18761.2	17914.3	15894.6	15341.3	15314.4	15549.0	14947.4
52.5°	17269.7	17316.3	17763.9	18671.7	20566.1	20857.9	18413.9	17701.2	17681.5	17783.6	17190.9
55°	16385.2	16469.3	17019.0	18365.5	21543.7	24184.8	21593.9	20623.4	20474.8	20254.5	19536.5
57.5°	13975.1	14109.4	14700.3	16490.8	21087.1	26824.0	26267.1	23928.7	23710.3	22363.8	21443.4
60°	10471.0	10635.8	11126.4	13058.4	18650.2	27764.0	31373.8	27611.8	27119.4	24043.3	23196.4
62.5°	7185.4	7267.8	7600.8	8859.6	13735.2	26224.2	35646.0	32544.8	31645.9	25869.6	25092.6
65°	5488.0	5516.6	5652.7	6086.0	8179.2	21302.0	37345.2	39053.4	37966.5	28054.1	27060.4
67.5°	4422.6	4399.3	4587.4	5206.9	5477.2	12995.7	35363.1	45211.0	44702.5	30974.5	29040.7
69°	3899.8	3867.6	4059.1	4778.9	5144.2	8591.0	31613.7	46609.4	46641.6	32516.1	29176.8
70°	3509.4	3530.9	3720.7	4524.7	5031.4	6743.2	28032.6	46253.1	46507.4	33092.7	28360.3
72.5°	2343.8	2401.1	2782.5	3756.5	4838.0	5103.0	16925.9	39690.8	40668.4	31794.5	24331.6
75°	1321.4	1364.4	1817.4	2832.6	4558.7	4859.5	8940.1	29241.2	30186.6	26587.7	18763.0
77.5°	648.2	671.5	1027.8	1828.1	3812.0	4630.3	5070.8	19862.4	20942.1	17353.9	10612.5
80°	274.0	286.5	513.9	1128.0	2725.2	4419.0	3765.5	12224.0	12358.3	6798.7	2827.3
82.5°	105.6	109.2	216.7	703.7	1731.4	3445.0	3149.6	5796.0	5656.3	1280.2	644.6
85°	12.5	14.3	78.8	422.6	963.3	1772.6	2558.7	2497.8	2311.6	254.3	331.2
87.5°	0.0	0.0	5.4	128.9	286.5	830.8	1330.4	1036.7	934.7	82.4	171.9
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°	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1	10693.1
2.5°	10666.2	10648.3	10551.6	10412.0	10279.5	10114.7	9957.2	9862.3	9787.1	9736.9	9796.0
5°	10694.9	10616.1	10322.4	9946.4	9577.6	9162.2	8775.4	8447.7	8318.8	8175.6	8240.0
7.5°	10685.9	10537.3	10009.1	9339.4	8662.6	7962.5	7300.0	6789.7	6524.7	6265.1	6331.3
10°	10641.1	10390.5	9590.1	8598.1	7584.7	6578.4	5638.4	4924.0	4524.7	4163.0	4214.9
12.5°	10542.7	10193.5	9095.9	7749.4	6394.0	5067.2	3966.0	3051.1	2560.5	2343.8	2370.7
15°	10483.6	10001.9	8573.1	6890.0	5122.7	3529.1	2424.4	1803.1	1579.3	1507.6	1516.6
17.5°	10454.9	9817.5	8032.3	5907.0	3822.8	2247.1	1566.7	1382.3	1333.9	1321.4	1325.0
20°	10426.3	9631.3	7475.5	4934.7	2633.9	1511.2	1287.4	1233.7	1215.8	1199.7	1203.2
22.5°	10377.9	9452.2	6877.4	3949.9	1776.2	1226.5	1160.3	1108.3	1070.7	1051.0	1054.6
25°	10318.9	9264.2	6266.9	2941.8	1296.3	1094.0	1031.3	957.9	913.2	877.4	879.2
27.5°	10224.0	9033.2	5636.6	2141.5	1088.6	979.4	895.3	814.7	739.5	698.3	698.3
30°	10091.5	8771.8	4936.5	1532.7	975.8	866.6	764.6	664.3	583.7	546.1	542.5
32.5°	9944.6	8499.7	4229.2	1162.1	886.3	761.0	644.6	539.0	467.3	436.9	435.1
35°	9819.3	8206.0	3523.8	974.1	796.8	658.9	531.8	442.3	385.0	359.9	358.1
37.5°	9738.7	7912.4	2836.2	870.2	716.2	564.0	445.8	365.3	324.1	304.4	302.6
40°	9726.2	7693.9	2207.7	791.4	641.0	479.9	372.4	309.8	272.2	250.7	248.9
42.5°	9889.1	7568.6	1693.8	725.2	564.0	406.5	316.9	265.0	225.6	204.1	202.3
45°	10317.1	7608.0	1303.5	666.1	487.0	343.8	268.6	220.2	184.4	168.3	164.7
47.5°	11097.7	7880.1	1036.7	607.0	413.6	291.9	229.2	182.6	152.2	136.1	134.3
50°	12487.2	8519.4	866.6	542.5	345.6	248.9	189.8	148.6	123.5	109.2	107.4
52.5°	14331.4	9658.1	773.5	479.9	286.5	211.3	155.8	118.2	96.7	85.9	84.2
55°	16365.5	11036.9	712.6	411.8	234.6	175.5	123.5	93.1	75.2	66.2	62.7
57.5°	18351.2	12231.1	655.3	345.6	195.2	143.2	98.5	73.4	59.1	50.1	48.3
60°	20175.7	13328.7	589.1	277.5	159.4	112.8	77.0	57.3	46.6	37.6	37.6
62.5°	22129.2	14177.5	497.8	216.7	130.7	85.9	62.7	51.9	37.6	32.2	30.4
65°	24199.1	14807.7	390.3	168.3	102.1	64.5	51.9	53.7	30.4	23.3	21.5
67.5°	25728.2	14682.4	288.3	132.5	78.8	50.1	50.1	57.3	26.9	17.9	16.1
69°	25391.6	13663.6	241.7	114.6	68.0	43.0	46.6	57.3	25.1	16.1	14.3
70°	24415.7	12535.5	213.1	102.1	60.9	39.4	44.8	55.5	23.3	16.1	14.3
72.5°	20333.3	9441.5	166.5	77.0	48.3	32.2	37.6	48.3	23.3	16.1	12.5
75°	15294.7	6043.1	127.1	55.5	35.8	25.1	28.6	35.8	23.3	14.3	12.5
77.5°	8322.4	2179.1	91.3	37.6	25.1	19.7	19.7	26.9	21.5	10.7	7.2
80°	2139.7	547.9	57.3	25.1	19.7	14.3	12.5	17.9	12.5	1.8	0.0
82.5°	528.2	123.5	30.4	17.9	14.3	5.4	5.4	9.0	5.4	0.0	0.0
85°	290.1	60.9	19.7	12.5	7.2	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	148.6	17.9	5.4	3.6	1.8	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)