

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: P383612

Luminaire Tested: **GAN-SA9A-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383612
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-SA9A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 32144.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

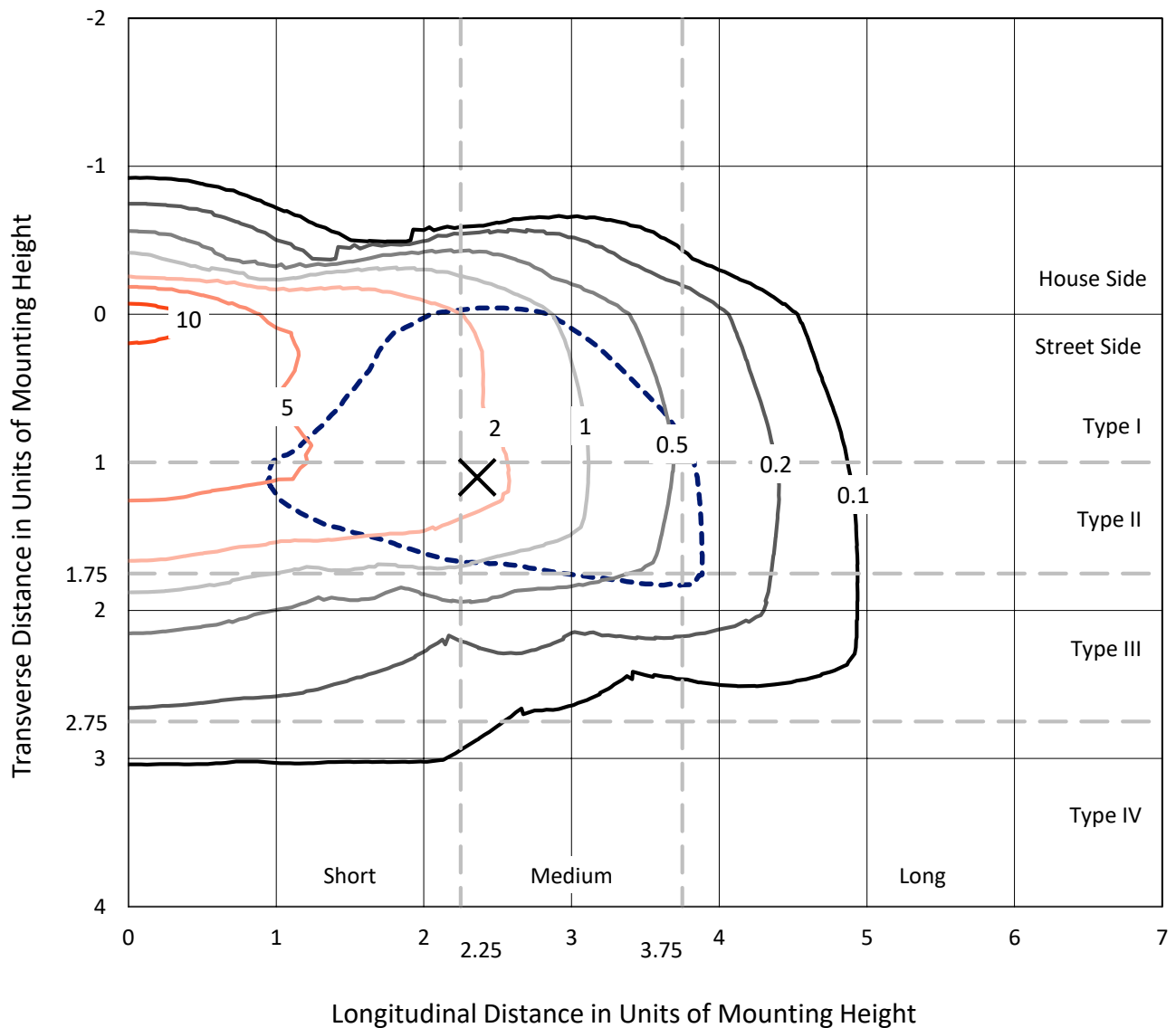
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

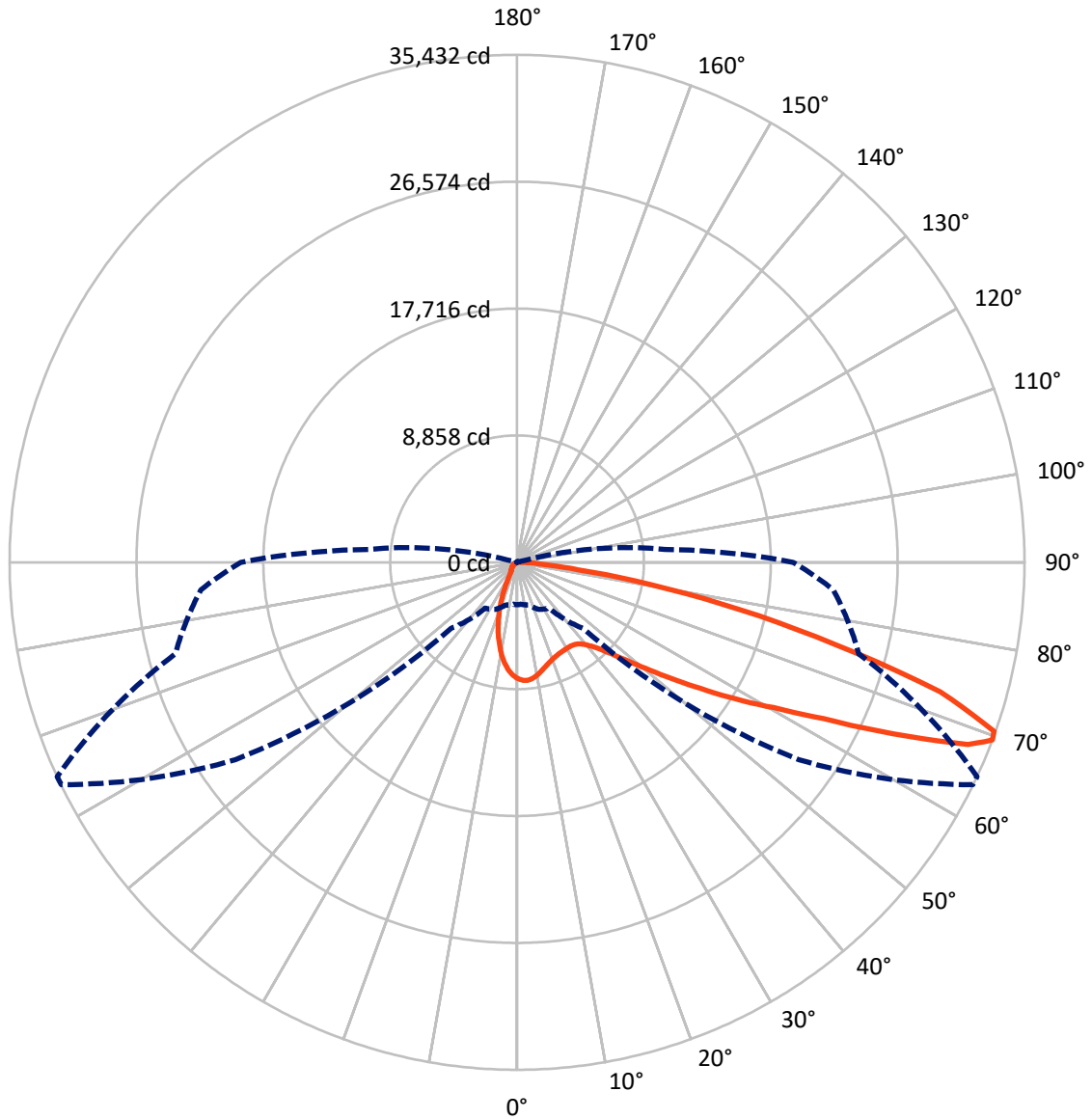
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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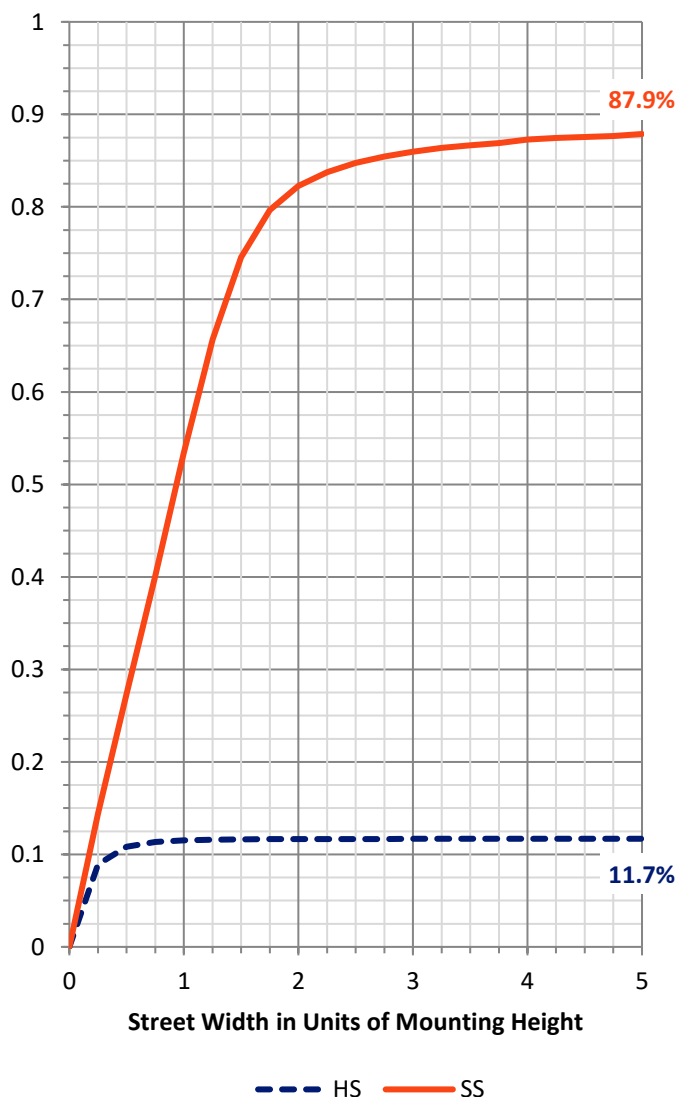
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3789.1	0.0	3789.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	28355.8	0.0	28355.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	32144.9	0.0	32144.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	2.1
10°-20°	1486.9	4.6
20°-30°	2059.4	6.4
30°-40°	2871.5	8.9
40°-50°	4463.3	13.9
50°-60°	7165.3	22.3
60°-70°	8105.2	25.2
70°-80°	4760.2	14.8
80°-90°	553.7	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°	32144.9	100.0
0°-180°	32144.9	100.0

Coefficient of Utilization

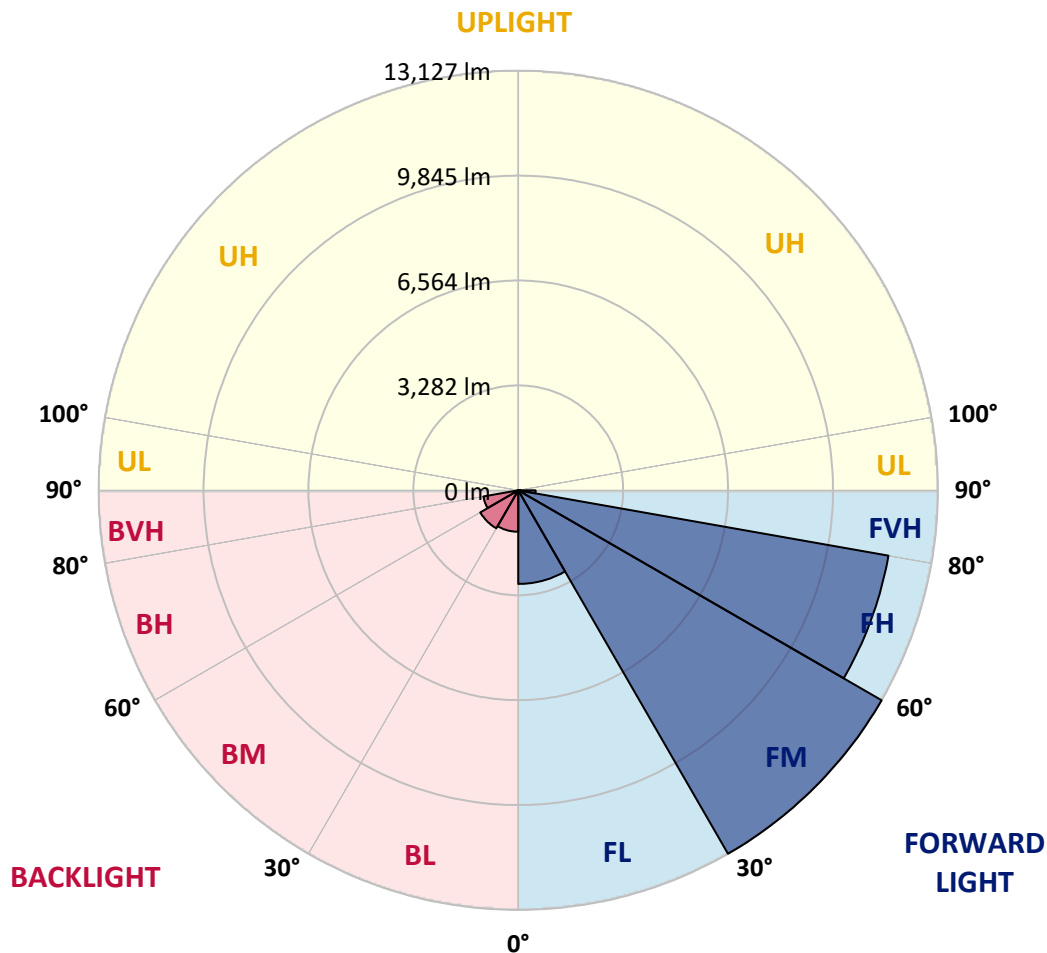


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2929.1	9.1			
FM (30°-60°)	13127.1	40.8			
FH (60°-80°)	11758.3	36.6			G4/12000
FVH (80°-90°)	541.3	1.7			G4/750
BL (0°-30°)	1296.5	4.0	B3/2500		
BM (30°-60°)	1373.1	4.3	B2/2500		
BH (60°-80°)	1107.1	3.4	B3/2500		G3/2500
BVH (80°-90°)	12.5	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1
2.5°	8195.2	8174.8	8191.1	8226.5	8244.1	8244.1	8257.7	8241.4	8246.9	8207.4	8150.3
5°	7682.4	7651.1	7696.0	7795.3	7917.7	8022.4	8177.5	8259.1	8267.3	8268.6	8202.0
7.5°	7130.2	7101.6	7168.3	7285.2	7443.0	7637.5	7908.2	8144.8	8158.4	8286.3	8237.3
10°	6681.2	6660.8	6738.4	6863.5	7048.6	7266.2	7598.1	7927.2	7966.7	8249.6	8231.9
12.5°	6324.9	6308.5	6382.0	6526.2	6715.2	6956.1	7302.9	7685.1	7738.2	8166.6	8204.7
15°	6065.1	6062.4	6123.6	6262.3	6471.8	6696.2	7051.3	7460.7	7521.9	8076.8	8200.6
17.5°	5929.1	5933.1	5978.0	6096.4	6275.9	6499.0	6839.0	7271.6	7338.3	7996.6	8221.0
20°	5915.5	5919.5	5944.0	6010.7	6156.2	6353.4	6666.3	7112.5	7181.9	7936.7	8253.7
22.5°	6035.2	6032.4	6039.2	6032.4	6114.0	6263.7	6552.0	6990.1	7070.3	7897.3	8279.5
25°	6265.0	6260.9	6258.2	6207.9	6153.5	6233.7	6504.4	6920.7	6996.9	7868.7	8294.5
27.5°	6584.7	6581.9	6577.9	6494.9	6331.7	6281.3	6509.8	6894.8	6958.8	7845.6	8291.7
30°	7005.0	7024.1	7018.6	6903.0	6648.6	6426.9	6567.0	6881.2	6937.0	7800.7	8263.2
32.5°	7498.8	7536.9	7566.8	7443.0	7124.7	6715.2	6698.9	6896.2	6937.0	7766.7	8211.5
35°	8011.5	8060.5	8170.7	8127.2	7708.2	7149.2	6926.1	6986.0	7020.0	7785.8	8187.0
37.5°	8516.2	8574.6	8814.0	8940.5	8472.6	7723.2	7279.8	7207.7	7225.4	7901.4	8214.2
40°	9102.4	9190.8	9554.0	9758.1	9385.3	8491.7	7808.9	7588.5	7595.3	8155.7	8340.7
42.5°	9872.3	9963.5	10356.5	10676.2	10413.7	9462.8	8527.0	8170.7	8163.9	8631.8	8638.6
45°	10810.8	10906.0	11312.7	11667.7	11549.4	10613.6	9446.5	9020.8	9012.6	9382.6	9203.0
47.5°	11874.5	11968.3	12331.5	12697.4	12825.3	11957.4	10617.7	10181.1	10162.0	10425.9	10075.0
50°	12787.2	12848.4	13183.0	13675.4	14252.1	13608.7	12074.4	11654.1	11633.7	11811.9	11354.9
52.5°	13119.1	13154.5	13494.5	14184.1	15623.2	15844.9	13988.2	13446.9	13431.9	13509.4	13059.2
55°	12447.2	12511.1	12928.7	13951.5	16365.9	18372.2	16403.9	15666.7	15553.8	15386.5	14841.0
57.5°	10616.3	10718.3	11167.2	12527.4	16019.0	20377.0	19954.0	18177.7	18011.7	16988.8	16289.7
60°	7954.4	8079.6	8452.2	9919.9	14167.8	21091.2	23833.3	20975.6	20601.5	18264.7	17621.3
62.5°	5458.5	5521.0	5774.0	6730.2	10434.1	19921.4	27078.7	24722.9	24040.1	19652.1	19061.8
65°	4169.0	4190.8	4294.2	4623.3	6213.3	16182.2	28369.5	29667.2	28841.6	21311.5	20556.6
67.5°	3359.7	3342.0	3484.8	3955.4	4160.9	9872.3	26863.8	34344.9	33958.6	23530.0	22061.0
69°	2962.5	2938.0	3083.5	3630.3	3907.8	6526.2	24015.6	35407.2	35431.7	24701.1	22164.3
70°	2666.0	2682.3	2826.5	3437.2	3822.1	5122.5	21295.2	35136.5	35329.7	25139.1	21544.1
72.5°	1780.5	1824.1	2113.8	2853.7	3675.2	3876.5	12857.9	30151.4	30894.0	24153.0	18483.7
75°	1003.8	1036.4	1380.6	2151.8	3463.0	3691.5	6791.4	22213.3	22931.5	20197.5	14253.4
77.5°	492.4	510.1	780.7	1388.8	2895.8	3517.4	3852.0	15088.6	15908.8	13183.0	8061.9
80°	208.1	217.6	390.4	856.9	2070.2	3356.9	2860.5	9286.0	9388.0	5164.7	2147.8
82.5°	80.2	83.0	164.6	534.5	1315.3	2617.0	2392.6	4403.0	4296.9	972.5	489.7
85°	9.5	10.9	59.8	321.0	731.8	1346.6	1943.7	1897.5	1756.0	193.1	251.6
87.5°	0.0	0.0	4.1	97.9	217.6	631.1	1010.6	787.5	710.0	62.6	130.6
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°	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1	8123.1
2.5°	8102.7	8089.1	8015.6	7909.5	7808.9	7683.8	7564.1	7492.0	7434.8	7396.8	7441.6
5°	8124.4	8064.6	7841.5	7555.9	7275.7	6960.2	6666.3	6417.4	6319.4	6210.6	6259.6
7.5°	8117.6	8004.7	7603.5	7094.8	6580.6	6048.8	5545.5	5157.9	4956.6	4759.3	4809.7
10°	8083.6	7893.2	7285.2	6531.6	5761.8	4997.4	4283.3	3740.5	3437.2	3162.4	3201.9
12.5°	8008.8	7743.6	6909.8	5886.9	4857.3	3849.3	3012.8	2317.8	1945.1	1780.5	1800.9
15°	7963.9	7598.1	6512.6	5234.0	3891.5	2680.9	1841.7	1369.7	1199.6	1145.2	1152.0
17.5°	7942.2	7458.0	6101.8	4487.3	2904.0	1707.1	1190.1	1050.0	1013.3	1003.8	1006.5
20°	7920.4	7316.5	5678.8	3748.7	2000.9	1148.0	977.9	937.1	923.5	911.3	914.0
22.5°	7883.7	7180.5	5224.5	3000.6	1349.3	931.7	881.4	841.9	813.4	798.4	801.1
25°	7838.8	7037.7	4760.7	2234.8	984.7	831.0	783.4	727.7	693.7	666.5	667.8
27.5°	7766.7	6862.2	4281.9	1626.8	827.0	744.0	680.1	618.9	561.7	530.5	530.5
30°	7666.1	6663.5	3750.0	1164.3	741.3	658.3	580.8	504.6	443.4	414.8	412.1
32.5°	7554.5	6456.8	3212.8	882.7	673.3	578.1	489.7	409.4	355.0	331.9	330.5
35°	7459.3	6233.7	2676.9	739.9	605.3	500.5	404.0	336.0	292.4	273.4	272.0
37.5°	7398.1	6010.7	2154.6	661.0	544.1	428.4	338.7	277.5	246.2	231.2	229.9
40°	7388.6	5844.7	1677.2	601.2	486.9	364.5	282.9	235.3	206.7	190.4	189.1
42.5°	7512.4	5749.5	1286.7	550.9	428.4	308.8	240.7	201.3	171.4	155.1	153.7
45°	7837.4	5779.5	990.2	506.0	370.0	261.1	204.0	167.3	140.1	127.9	125.1
47.5°	8430.5	5986.2	787.5	461.1	314.2	221.7	174.1	138.7	115.6	103.4	102.0
50°	9485.9	6471.8	658.3	412.1	262.5	189.1	144.2	112.9	93.8	83.0	81.6
52.5°	10887.0	7336.9	587.6	364.5	217.6	160.5	118.3	89.8	73.4	65.3	63.9
55°	12432.2	8384.2	541.3	312.8	178.2	133.3	93.8	70.7	57.1	50.3	47.6
57.5°	13940.6	9291.4	497.8	262.5	148.3	108.8	74.8	55.8	44.9	38.1	36.7
60°	15326.7	10125.3	447.5	210.8	121.1	85.7	58.5	43.5	35.4	28.6	28.6
62.5°	16810.6	10770.0	378.1	164.6	99.3	65.3	47.6	39.4	28.6	24.5	23.1
65°	18383.0	11248.8	296.5	127.9	77.5	49.0	39.4	40.8	23.1	17.7	16.3
67.5°	19544.6	11153.6	219.0	100.7	59.8	38.1	38.1	43.5	20.4	13.6	12.2
69°	19288.9	10379.7	183.6	87.0	51.7	32.6	35.4	43.5	19.0	12.2	10.9
70°	18547.6	9522.7	161.9	77.5	46.2	29.9	34.0	42.2	17.7	12.2	10.9
72.5°	15446.4	7172.3	126.5	58.5	36.7	24.5	28.6	36.7	17.7	12.2	9.5
75°	11618.7	4590.7	96.6	42.2	27.2	19.0	21.8	27.2	17.7	10.9	9.5
77.5°	6322.1	1655.4	69.4	28.6	19.0	15.0	15.0	20.4	16.3	8.2	5.4
80°	1625.5	416.2	43.5	19.0	15.0	10.9	9.5	13.6	9.5	1.4	0.0
82.5°	401.2	93.8	23.1	13.6	10.9	4.1	4.1	6.8	4.1	0.0	0.0
85°	220.3	46.2	15.0	9.5	5.4	0.0	0.0	1.4	0.0	0.0	0.0
87.5°	112.9	13.6	4.1	2.7	1.4	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)