

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: McGRAW-EDISON

Report Number: P383640

Luminaire Tested: **GLEON-SA9B-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383640
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: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 39418.4 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

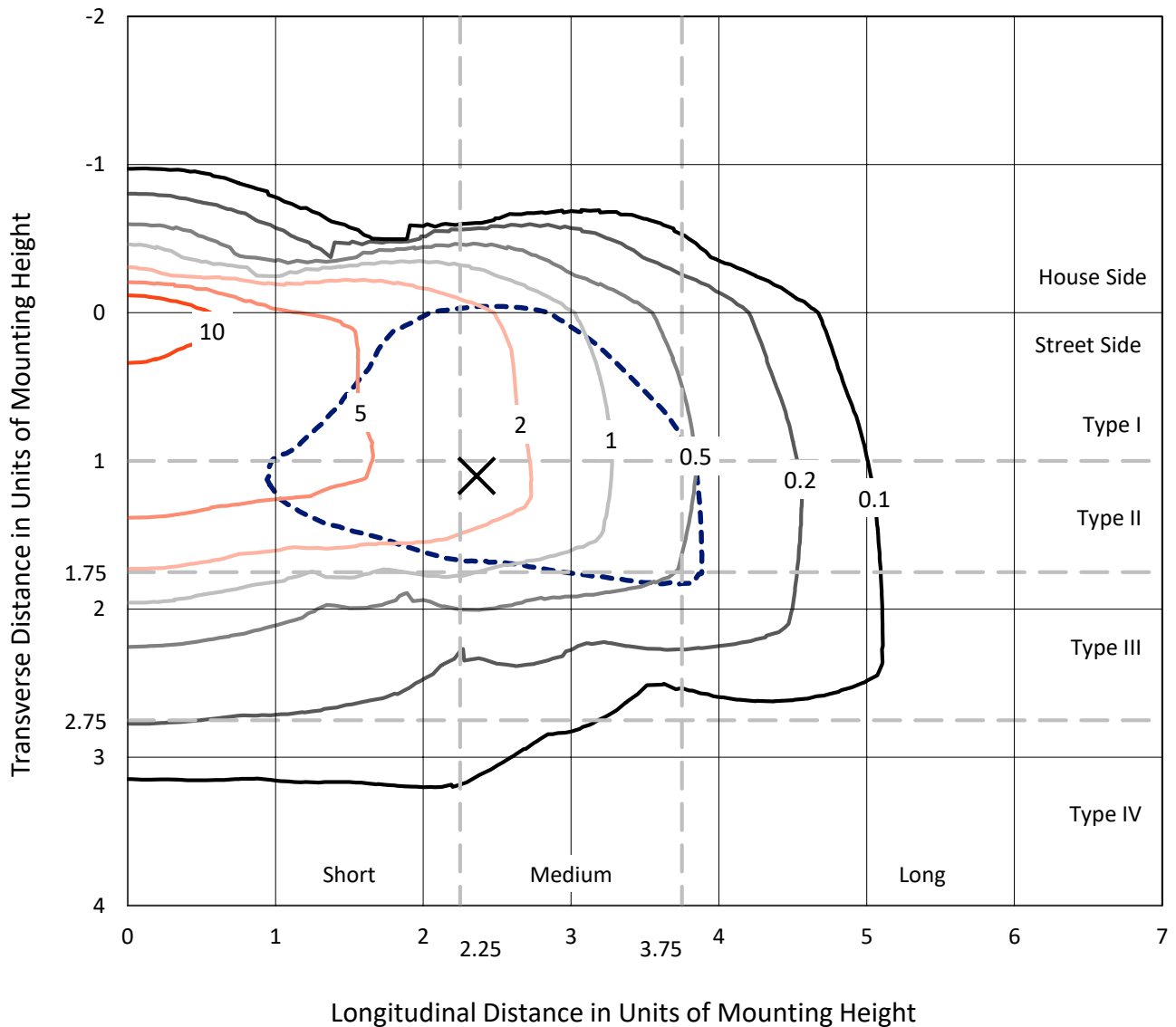
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

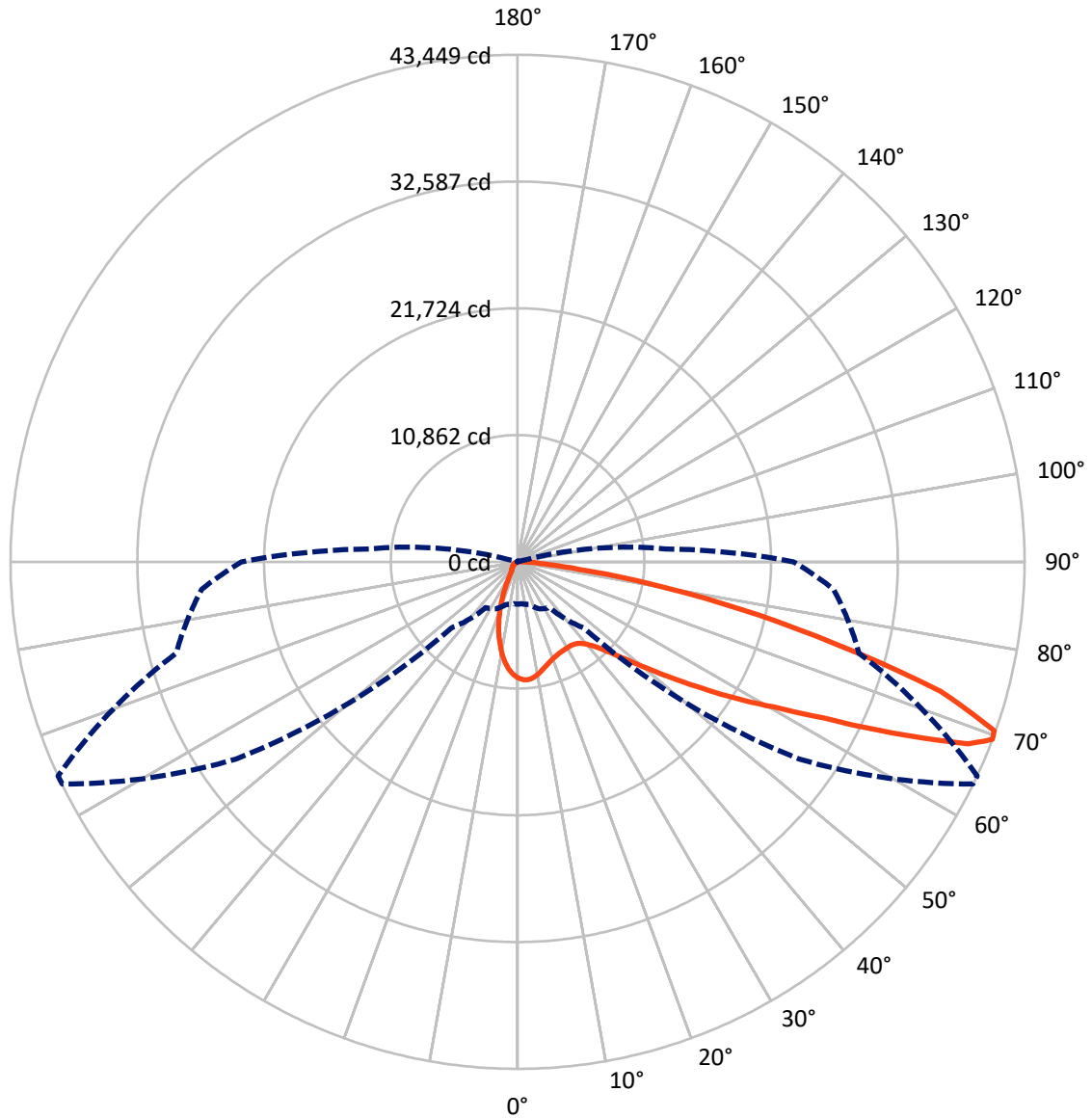
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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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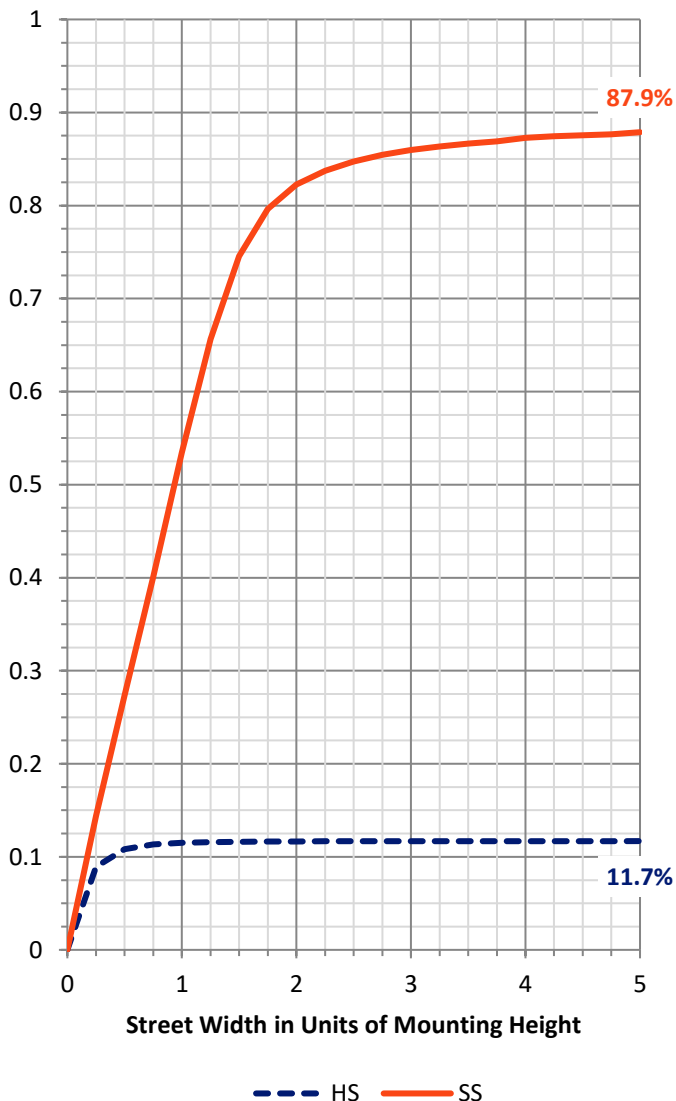
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4646.5	0.0	4646.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	34771.9	0.0	34771.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	39418.4	0.0	39418.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.9	2.1
10°-20°	1823.4	4.6
20°-30°	2525.4	6.4
30°-40°	3521.3	8.9
40°-50°	5473.2	13.9
50°-60°	8786.6	22.3
60°-70°	9939.1	25.2
70°-80°	5837.3	14.8
80°-90°	679.0	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°	39418.4	100.0
0°-180°	39418.4	100.0

Coefficient of Utilization

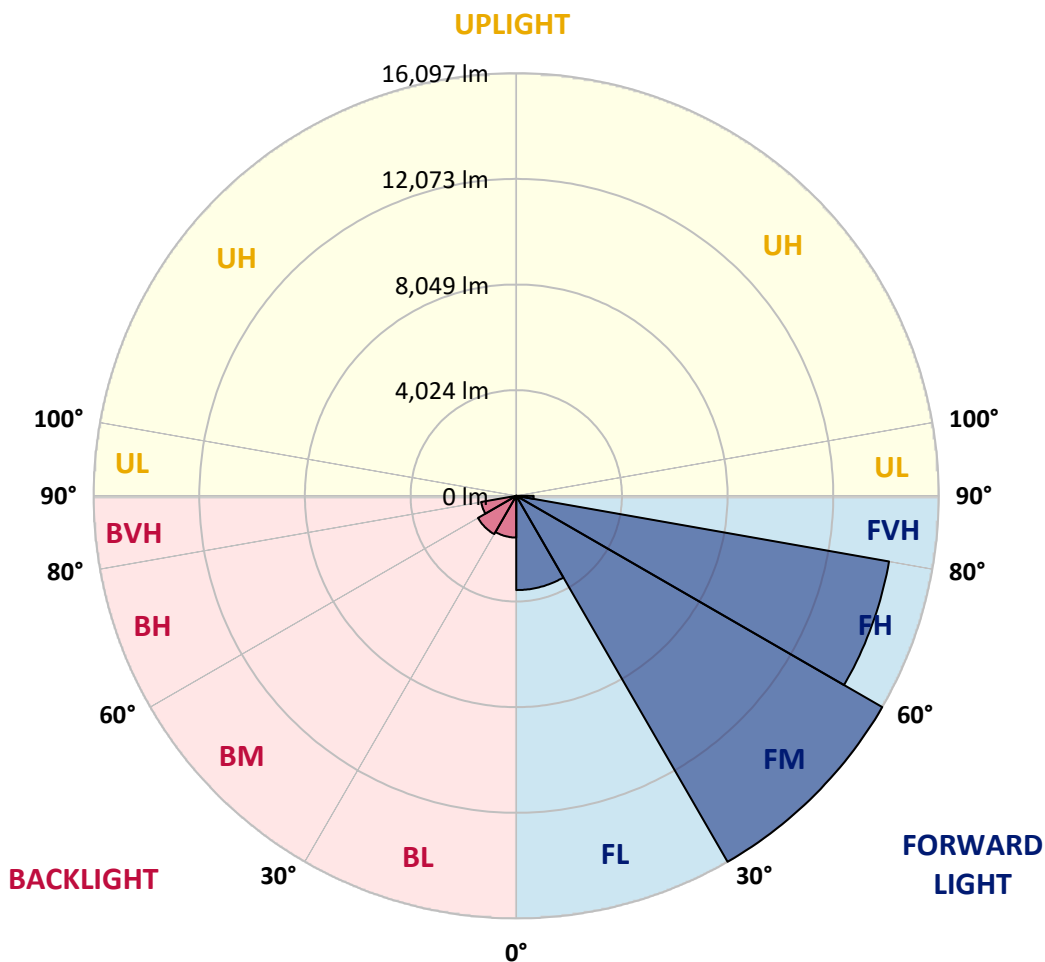


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3591.9	9.1			
FM (30°-60°)	16097.3	40.8			
FH (60°-80°)	14418.9	36.6			G5
FVH (80°-90°)	663.8	1.7			G4/750
BL (0°-30°)	1589.8	4.0	B3/2500		
BM (30°-60°)	1683.8	4.3	B2/2500		
BH (60°-80°)	1357.6	3.4	B3/2500		G3/2500
BVH (80°-90°)	15.3	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°	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1
2.5°	10049.5	10024.5	10044.5	10087.9	10109.5	10109.5	10126.2	10106.3	10112.9	10064.5	9994.5
5°	9420.6	9382.4	9437.3	9559.2	9709.2	9837.7	10027.8	10127.9	10137.9	10139.6	10057.8
7.5°	8743.5	8708.5	8790.2	8933.6	9127.1	9365.7	9697.6	9987.8	10004.4	10161.2	10101.2
10°	8193.1	8168.0	8263.1	8416.5	8643.5	8910.3	9317.2	9720.9	9769.3	10116.2	10094.5
12.5°	7756.1	7736.0	7826.1	8002.9	8234.8	8530.0	8955.3	9424.0	9489.1	10014.5	10061.2
15°	7437.5	7434.1	7509.2	7679.3	7936.2	8211.4	8646.7	9148.8	9223.9	9904.4	10056.1
17.5°	7270.6	7275.7	7330.7	7475.9	7696.0	7969.6	8386.5	8917.0	8998.7	9806.0	10081.2
20°	7254.0	7259.0	7289.0	7370.8	7549.3	7791.1	8174.7	8721.8	8806.9	9732.6	10121.3
22.5°	7400.8	7397.4	7405.8	7397.4	7497.6	7681.0	8034.6	8571.7	8670.1	9684.2	10152.9
25°	7682.7	7677.6	7674.4	7612.6	7545.9	7644.3	7976.2	8486.6	8580.0	9649.2	10171.3
27.5°	8074.7	8071.3	8066.3	7964.5	7764.4	7702.7	7982.9	8454.9	8533.3	9620.8	10167.9
30°	8590.1	8613.4	8606.8	8465.0	8153.0	7881.2	8052.9	8438.2	8506.6	9565.8	10132.9
32.5°	9195.5	9242.3	9278.9	9127.1	8736.8	8234.8	8214.8	8456.6	8506.6	9524.1	10069.6
35°	9824.4	9884.4	10019.4	9966.1	9452.4	8766.9	8493.3	8566.7	8608.4	9547.4	10039.5
37.5°	10443.1	10514.8	10808.5	10963.6	10389.7	9470.8	8926.9	8838.5	8860.2	9689.2	10072.8
40°	11162.1	11270.4	11715.8	11966.0	11509.0	10413.1	9575.8	9305.6	9313.9	10001.1	10228.0
42.5°	12106.1	12217.9	12699.9	13091.9	12769.9	11604.1	10456.5	10019.4	10011.2	10584.9	10593.3
45°	13257.0	13373.8	13872.5	14307.8	14162.7	13015.1	11584.1	11061.9	11052.0	11505.6	11285.5
47.5°	14561.4	14676.4	15121.8	15570.4	15727.3	14663.1	13020.1	12484.8	12461.4	12785.0	12354.7
50°	15680.6	15755.6	16166.0	16769.7	17477.0	16688.0	14806.6	14291.2	14266.1	14484.6	13924.2
52.5°	16087.5	16131.0	16547.9	17393.6	19158.3	19430.1	17153.4	16489.5	16471.2	16566.3	16014.1
55°	15263.6	15341.9	15854.0	17108.3	20069.0	22529.3	20115.7	19211.7	19073.3	18868.0	18199.2
57.5°	13018.5	13143.6	13694.0	15362.0	19643.6	24987.8	24469.1	22290.7	22087.3	20832.9	19975.5
60°	9754.2	9907.8	10364.8	12164.5	17373.5	25863.5	29226.2	25721.7	25263.0	22397.5	21608.6
62.5°	6693.5	6770.3	7080.5	8253.1	12795.0	24429.1	33205.9	30317.0	29479.7	24098.8	23375.0
65°	5112.3	5139.0	5265.8	5669.4	7619.3	19843.8	34788.8	36380.1	35367.6	26133.7	25208.1
67.5°	4119.9	4098.2	4273.4	4850.5	5102.3	12106.1	32942.4	42116.2	41642.5	28854.2	27052.8
69°	3632.8	3602.9	3781.2	4451.8	4792.1	8002.9	29449.7	43418.9	43448.9	30290.3	27179.6
70°	3269.2	3289.2	3466.0	4215.0	4687.0	6281.6	26113.7	43087.0	43323.9	30827.4	26419.0
72.5°	2183.4	2236.7	2592.0	3499.4	4506.8	4753.7	15767.3	36973.9	37884.6	29618.1	22666.0
75°	1230.9	1271.0	1693.0	2638.7	4246.6	4526.9	8328.1	27239.6	28120.3	24767.7	17478.6
77.5°	603.8	625.5	957.4	1703.0	3551.1	4313.3	4723.7	18502.8	19508.6	16166.0	9886.0
80°	255.2	266.9	478.7	1050.8	2538.7	4116.5	3507.7	11387.2	11512.3	6333.3	2633.8
82.5°	98.4	101.7	201.9	655.5	1612.9	3209.2	2934.0	5399.2	5269.1	1192.6	600.5
85°	11.6	13.3	73.4	393.7	897.4	1651.3	2383.6	2326.8	2153.4	236.9	308.5
87.5°	0.0	0.0	5.0	120.1	266.9	773.9	1239.3	965.7	870.7	76.8	160.1
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°	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1	9961.1
2.5°	9936.1	9919.4	9829.3	9699.3	9575.8	9422.3	9275.6	9187.2	9117.1	9070.4	9125.4
5°	9962.8	9889.4	9615.8	9265.5	8922.0	8535.0	8174.7	7869.4	7749.4	7616.0	7676.0
7.5°	9954.4	9816.0	9324.0	8700.1	8069.6	7417.4	6800.3	6324.9	6078.1	5836.2	5897.9
10°	9912.7	9679.2	8933.6	8009.5	7065.5	6128.1	5252.4	4586.9	4215.0	3878.0	3926.4
12.5°	9821.0	9495.7	8473.3	7218.9	5956.3	4720.3	3694.5	2842.2	2385.2	2183.4	2208.4
15°	9766.0	9317.2	7986.3	6418.4	4772.0	3287.5	2258.4	1679.7	1471.2	1404.4	1412.8
17.5°	9739.2	9145.5	7482.5	5502.7	3561.1	2093.3	1459.5	1287.7	1242.6	1230.9	1234.3
20°	9712.6	8972.0	6963.8	4596.9	2453.6	1407.8	1199.3	1149.3	1132.6	1117.6	1120.8
22.5°	9667.5	8805.2	6406.6	3679.5	1654.6	1142.5	1080.9	1032.4	997.4	979.1	982.4
25°	9612.5	8630.0	5837.9	2740.4	1207.6	1019.1	960.7	892.3	850.7	817.3	819.0
27.5°	9524.1	8414.9	5250.8	1994.9	1014.1	912.4	834.0	758.9	688.9	650.5	650.5
30°	9400.7	8171.3	4598.6	1427.8	909.0	807.3	712.3	618.8	543.7	508.7	505.4
32.5°	9263.9	7917.9	3939.7	1082.6	825.6	708.9	600.5	502.1	435.3	407.0	405.3
35°	9147.1	7644.3	3282.6	907.4	742.3	613.8	495.4	412.0	358.6	335.3	333.6
37.5°	9072.1	7370.8	2642.1	810.6	667.2	525.4	415.3	340.3	301.9	283.6	281.9
40°	9060.4	7167.2	2056.6	737.2	597.1	447.0	346.9	288.6	253.6	233.5	231.9
42.5°	9212.2	7050.5	1577.9	675.6	525.4	378.7	295.2	246.9	210.2	190.1	188.5
45°	9610.9	7087.2	1214.3	620.5	453.7	320.3	250.2	205.1	171.8	156.8	153.4
47.5°	10338.0	7340.7	965.7	565.4	385.3	271.9	213.5	170.1	141.8	126.8	125.1
50°	11632.4	7936.2	807.3	505.4	321.9	231.9	176.8	138.4	115.0	101.7	100.0
52.5°	13350.4	8997.0	720.6	447.0	266.9	196.8	145.1	110.1	90.1	80.0	78.4
55°	15245.2	10281.4	663.8	383.6	218.5	163.5	115.0	86.7	70.1	61.7	58.4
57.5°	17095.0	11393.9	610.4	321.9	181.8	133.4	91.8	68.4	55.1	46.7	45.0
60°	18794.6	12416.3	548.8	258.5	148.5	105.1	71.7	53.4	43.4	35.0	35.0
62.5°	20614.4	13207.0	463.7	201.9	121.8	80.0	58.4	48.3	35.0	30.0	28.3
65°	22542.6	13794.1	363.6	156.8	95.1	60.1	48.3	50.0	28.3	21.7	20.0
67.5°	23967.0	13677.4	268.6	123.4	73.4	46.7	46.7	53.4	25.1	16.7	15.0
69°	23653.5	12728.3	225.2	106.8	63.3	40.1	43.4	53.4	23.4	15.0	13.3
70°	22744.4	11677.4	198.5	95.1	56.7	36.7	41.7	51.7	21.7	15.0	13.3
72.5°	18941.4	8795.2	155.1	71.7	45.0	30.0	35.0	45.0	21.7	15.0	11.6
75°	14247.7	5629.4	118.4	51.7	33.3	23.4	26.6	33.3	21.7	13.3	11.6
77.5°	7752.7	2029.9	85.1	35.0	23.4	18.4	18.4	25.1	20.0	10.0	6.7
80°	1993.2	510.4	53.4	23.4	18.4	13.3	11.6	16.7	11.6	1.7	0.0
82.5°	492.0	115.0	28.3	16.7	13.3	5.0	5.0	8.4	5.0	0.0	0.0
85°	270.2	56.7	18.4	11.6	6.7	0.0	0.0	1.7	0.0	0.0	0.0
87.5°	138.4	16.7	5.0	3.4	1.7	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)