

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: P323333

Luminaire Tested: **GLEON-SA9C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323333
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-SA9C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 38503 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

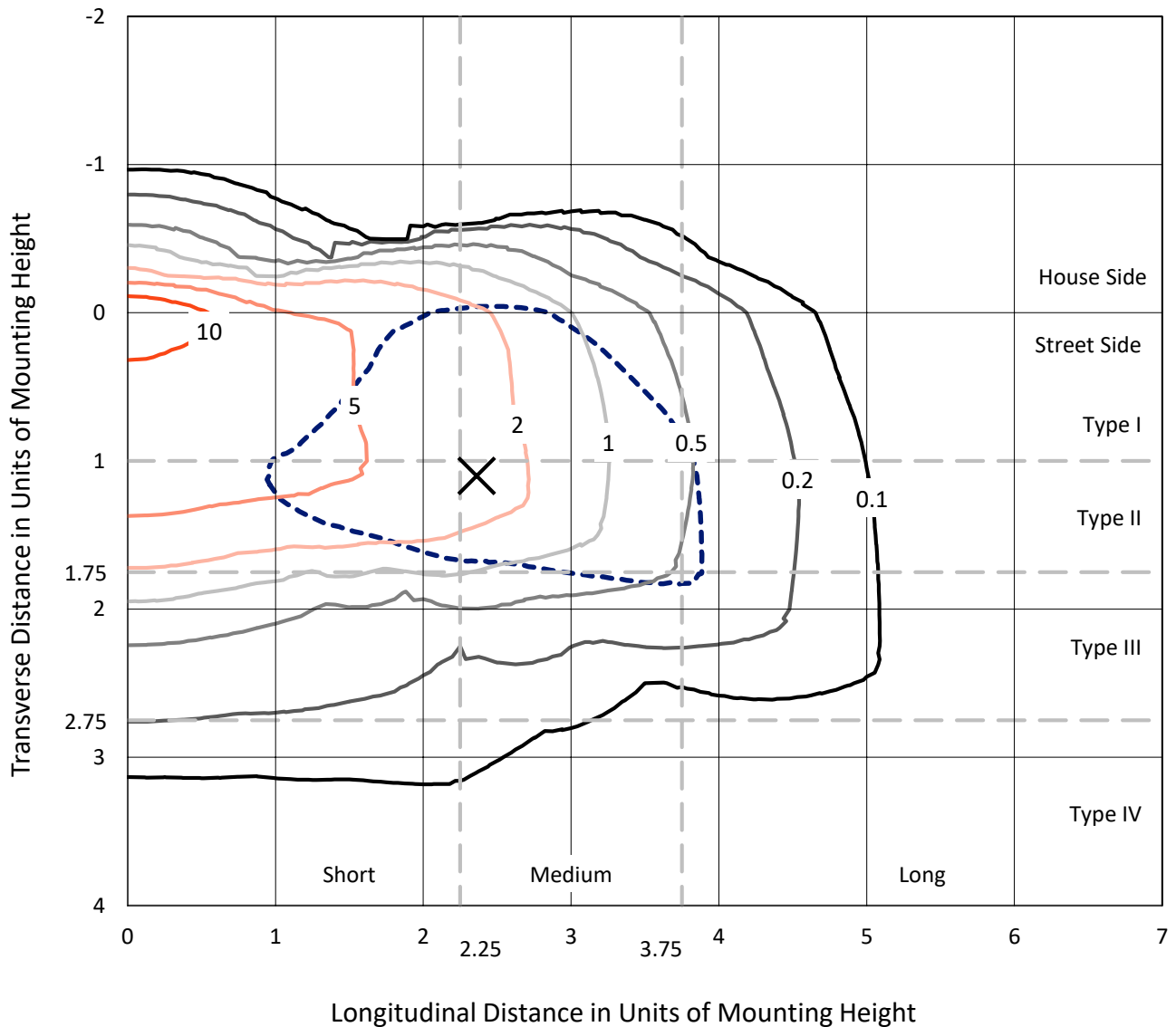
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

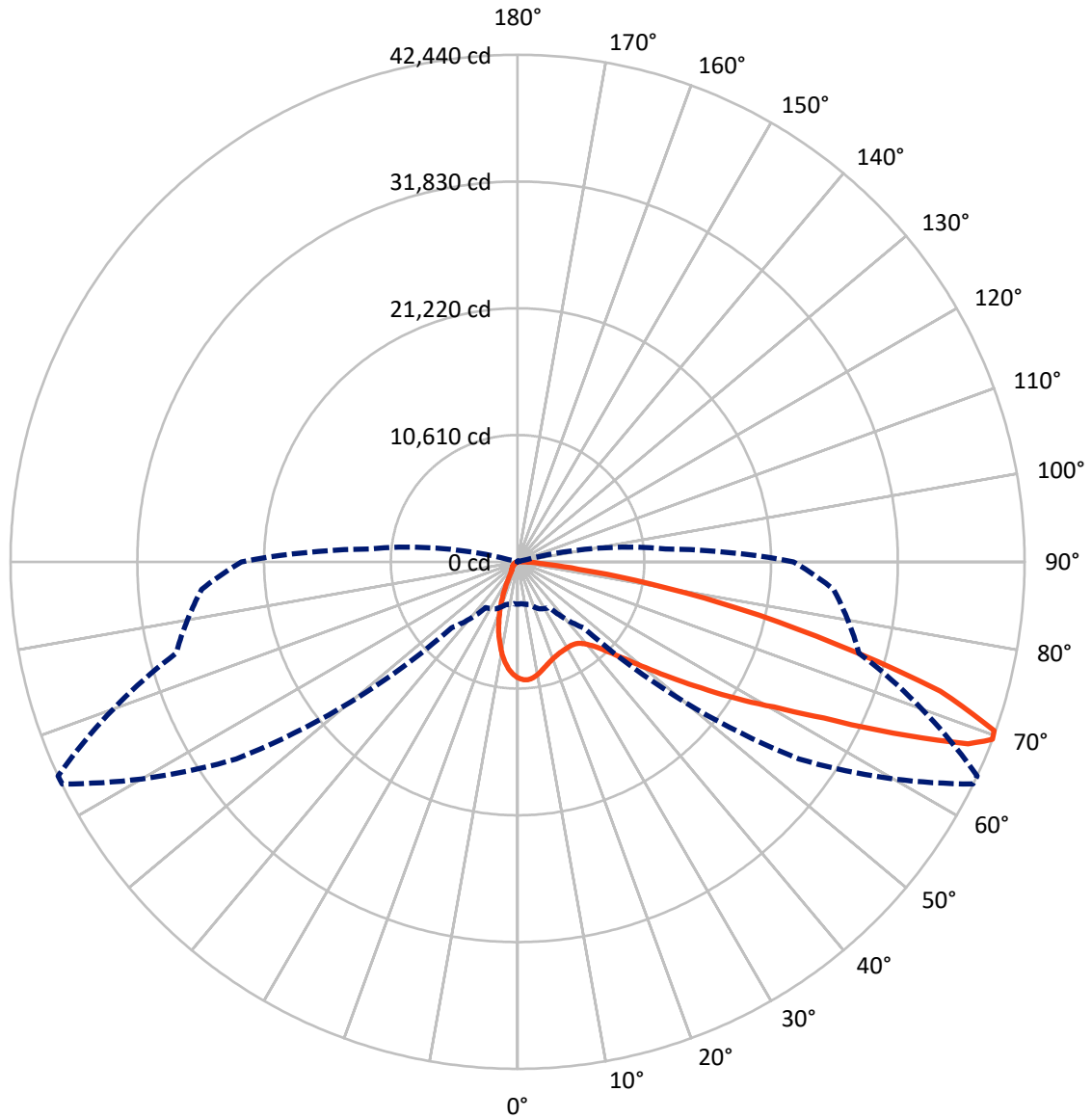
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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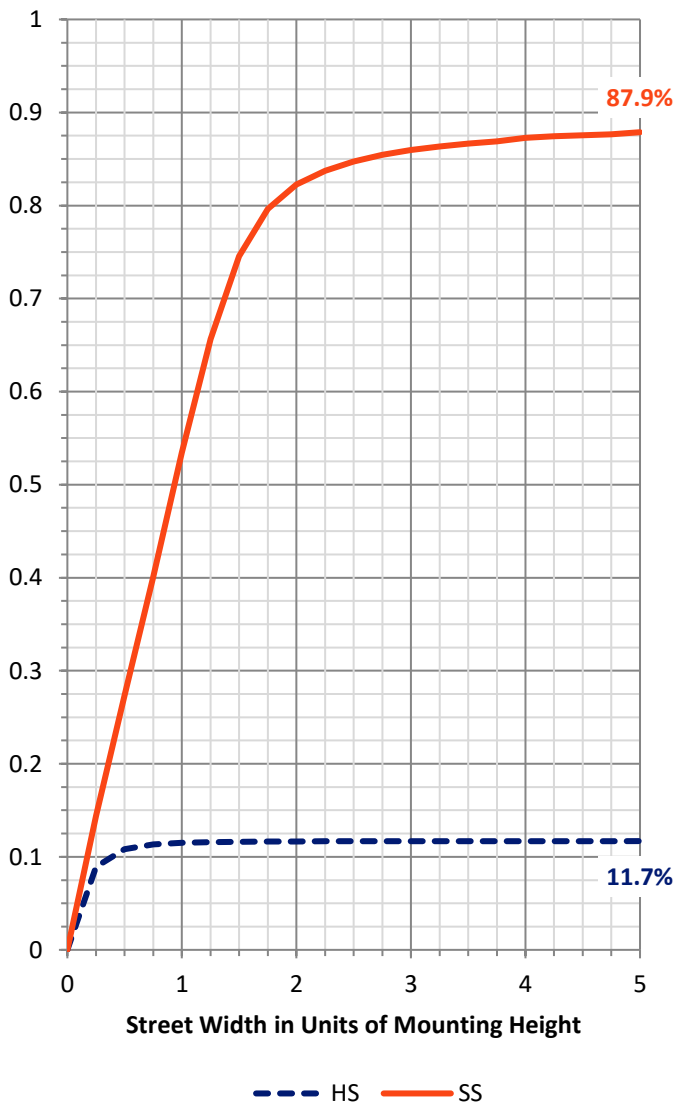
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4538.6	0.0	4538.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	33964.4	0.0	33964.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	38503.0	0.0	38503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.6	2.1
10°-20°	1781.0	4.6
20°-30°	2466.8	6.4
30°-40°	3439.5	8.9
40°-50°	5346.1	13.9
50°-60°	8582.6	22.3
60°-70°	9708.3	25.2
70°-80°	5701.8	14.8
80°-90°	663.3	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°	38503.0	100.0
0°-180°	38503.0	100.0

Coefficient of Utilization

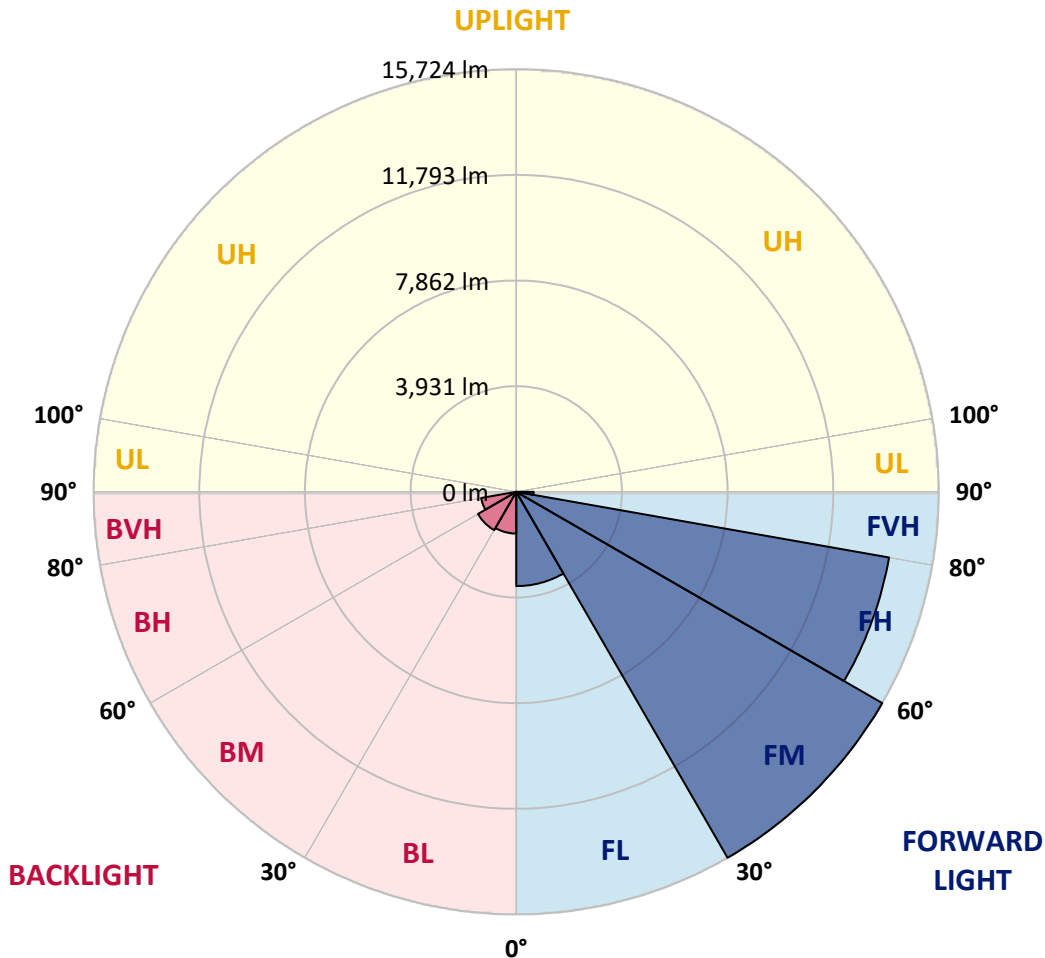


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3508.5	9.1			
FM (30°-60°)	15723.5	40.8			
FH (60°-80°)	14084.0	36.6			G5
FVH (80°-90°)	648.3	1.7			G4/750
BL (0°-30°)	1552.9	4.0	B3/2500		
BM (30°-60°)	1644.7	4.3	B2/2500		
BH (60°-80°)	1326.1	3.4	B3/2500		G3/2500
BVH (80°-90°)	14.9	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°	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8
2.5°	9816.1	9791.7	9811.2	9853.6	9874.8	9874.8	9891.1	9871.5	9878.0	9830.8	9762.4
5°	9201.9	9164.4	9218.2	9337.1	9483.8	9609.2	9794.9	9892.7	9902.5	9904.1	9824.3
7.5°	8540.4	8506.2	8586.1	8726.2	8915.2	9148.1	9472.4	9755.8	9772.1	9925.3	9866.6
10°	8002.8	7978.4	8071.2	8221.1	8442.7	8703.4	9100.9	9495.2	9542.4	9881.3	9860.1
12.5°	7575.9	7556.4	7644.4	7817.1	8043.5	8331.9	8747.3	9205.2	9268.7	9781.9	9827.5
15°	7264.7	7261.5	7334.8	7501.0	7751.9	8020.7	8445.9	8936.3	9009.7	9674.4	9822.6
17.5°	7101.8	7106.7	7160.5	7302.2	7517.3	7784.5	8191.8	8709.9	8789.7	9578.3	9847.1
20°	7085.5	7090.4	7119.7	7199.6	7373.9	7610.1	7984.9	8519.3	8602.3	9506.6	9886.2
22.5°	7228.9	7225.6	7233.8	7225.6	7323.4	7502.6	7848.0	8372.6	8468.7	9459.3	9917.1
25°	7504.2	7499.4	7496.1	7435.8	7370.6	7466.8	7791.0	8289.5	8380.8	9425.1	9935.1
27.5°	7887.1	7883.9	7879.0	7779.6	7584.1	7523.8	7797.5	8258.6	8335.2	9397.4	9931.8
30°	8390.5	8413.4	8406.8	8268.4	7963.7	7698.1	7865.9	8242.3	8309.1	9343.6	9897.6
32.5°	8982.0	9027.6	9063.4	8915.2	8533.9	8043.5	8024.0	8260.2	8309.1	9302.9	9835.7
35°	9596.2	9654.8	9786.8	9734.7	9232.9	8563.2	8296.1	8367.7	8408.5	9325.7	9806.3
37.5°	10200.6	10270.7	10557.4	10708.9	10148.5	9250.8	8719.7	8633.3	8654.5	9464.2	9838.9
40°	10902.8	11008.7	11443.7	11688.1	11241.7	10171.3	9353.4	9089.5	9097.6	9768.9	9990.5
42.5°	11825.0	11934.1	12405.0	12787.8	12473.4	11334.6	10213.7	9786.8	9778.7	10339.1	10347.3
45°	12949.1	13063.2	13550.3	13975.6	13833.8	12712.9	11315.0	10805.1	10795.3	11238.4	11023.4
47.5°	14223.2	14335.6	14770.6	15208.9	15362.0	14322.6	12717.8	12194.8	12172.0	12488.1	12067.7
50°	15316.4	15389.7	15790.5	16380.3	17071.1	16300.5	14462.7	13959.3	13934.8	14148.3	13600.8
52.5°	15713.9	15756.3	16163.6	16989.6	18713.4	18978.9	16755.0	16106.6	16088.7	16181.5	15642.3
55°	14909.1	14985.7	15485.9	16711.0	19602.9	22006.0	19648.5	18765.5	18630.3	18429.9	17776.6
57.5°	12716.2	12838.4	13376.0	15005.2	19187.5	24407.5	23900.8	21773.1	21574.3	20349.1	19511.7
60°	9527.8	9677.6	10124.0	11882.0	16970.1	25262.9	28547.4	25124.4	24676.4	21877.3	21106.7
62.5°	6538.1	6613.1	6916.1	8061.4	12497.8	23861.7	32434.8	29612.9	28795.1	23539.1	22832.1
65°	4993.6	5019.7	5143.5	5537.8	7442.3	19383.0	33980.9	35535.2	34546.2	25526.8	24622.6
67.5°	4024.2	4003.0	4174.1	4737.8	4983.8	11825.0	32177.3	41138.1	40675.4	28184.1	26424.5
69°	3548.5	3519.1	3693.5	4348.4	4680.8	7817.1	28765.7	42410.5	42439.9	29586.9	26548.3
70°	3193.3	3212.8	3385.5	4117.1	4578.1	6135.7	25507.3	42086.3	42317.7	30111.5	25805.4
72.5°	2132.7	2184.8	2531.8	3418.1	4402.2	4643.3	15401.1	36115.2	37004.8	28930.3	22139.6
75°	1202.4	1241.5	1653.7	2577.4	4148.0	4421.7	8134.8	26607.0	27467.2	24192.5	17072.7
77.5°	589.8	611.0	935.2	1663.4	3468.6	4213.2	4614.0	18073.1	19055.5	15790.5	9656.5
80°	249.3	260.7	467.6	1026.4	2479.7	4020.9	3426.3	11122.8	11245.0	6186.2	2572.6
82.5°	96.1	99.4	197.1	640.3	1575.5	3134.6	2865.8	5273.8	5146.7	1164.9	586.5
85°	11.4	13.0	71.7	384.5	876.5	1612.9	2328.2	2272.8	2103.3	231.4	301.4
87.5°	0.0	0.0	4.9	117.3	260.7	756.0	1210.5	943.3	850.5	74.9	156.4
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°	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8	9729.8
2.5°	9705.3	9689.0	9601.1	9474.0	9353.4	9203.5	9060.2	8973.8	8905.4	8859.8	8913.5
5°	9731.4	9659.7	9392.5	9050.4	8714.8	8336.8	7984.9	7686.7	7569.4	7439.1	7497.7
7.5°	9723.3	9588.0	9107.4	8498.1	7882.2	7245.2	6642.4	6178.0	5936.9	5700.7	5761.0
10°	9682.5	9454.4	8726.2	7823.6	6901.4	5985.8	5130.5	4480.4	4117.1	3788.0	3835.2
12.5°	9592.9	9275.2	8276.5	7051.3	5818.0	4610.7	3608.7	2776.2	2329.8	2132.7	2157.1
15°	9539.2	9100.9	7800.8	6269.3	4661.2	3211.2	2206.0	1640.6	1437.0	1371.8	1380.0
17.5°	9513.1	8933.1	7308.7	5374.8	3478.4	2044.7	1425.6	1257.8	1213.8	1202.4	1205.6
20°	9487.0	8763.6	6802.0	4490.2	2396.6	1375.1	1171.4	1122.5	1106.2	1091.6	1094.8
22.5°	9443.0	8600.7	6257.9	3594.1	1616.2	1116.0	1055.7	1008.5	974.3	956.4	959.6
25°	9389.3	8429.6	5702.3	2676.8	1179.6	995.5	938.4	871.6	830.9	798.3	800.0
27.5°	9302.9	8219.5	5128.8	1948.6	990.6	891.2	814.6	741.3	672.9	635.4	635.4
30°	9182.4	7981.6	4491.8	1394.6	887.9	788.5	695.7	604.4	531.1	496.9	493.7
32.5°	9048.8	7734.0	3848.2	1057.4	806.5	692.4	586.5	490.4	425.2	397.5	395.9
35°	8934.7	7466.8	3206.3	886.3	725.0	599.6	483.9	402.4	350.3	327.5	325.8
37.5°	8861.4	7199.6	2580.7	791.8	651.7	513.2	405.7	332.4	294.9	277.0	275.3
40°	8850.0	7000.8	2008.8	720.1	583.3	436.6	338.9	281.9	247.6	228.1	226.5
42.5°	8998.3	6886.8	1541.3	659.8	513.2	369.8	288.4	241.1	205.3	185.7	184.1
45°	9387.6	6922.6	1186.1	606.1	443.2	312.8	244.4	200.4	167.8	153.1	149.9
47.5°	10098.0	7170.3	943.3	552.3	376.4	265.6	208.5	166.2	138.5	123.8	122.2
50°	11362.3	7751.9	788.5	493.7	314.4	226.5	172.7	135.2	112.4	99.4	97.8
52.5°	13040.4	8788.1	703.8	436.6	260.7	192.2	141.7	107.5	88.0	78.2	76.6
55°	14891.2	10042.6	648.4	374.7	213.4	159.7	112.4	84.7	68.4	60.3	57.0
57.5°	16698.0	11129.3	596.3	314.4	177.6	130.3	89.6	66.8	53.8	45.6	44.0
60°	18358.2	12128.0	536.0	252.5	145.0	102.6	70.1	52.1	42.4	34.2	34.2
62.5°	20135.7	12900.3	452.9	197.1	118.9	78.2	57.0	47.2	34.2	29.3	27.7
65°	22019.1	13473.8	355.2	153.1	92.9	58.7	47.2	48.9	27.7	21.2	19.6
67.5°	23410.4	13359.7	262.3	120.6	71.7	45.6	45.6	52.1	24.4	16.3	14.7
69°	23104.1	12432.7	219.9	104.3	61.9	39.1	42.4	52.1	22.8	14.7	13.0
70°	22216.2	11406.3	193.9	92.9	55.4	35.8	40.7	50.5	21.2	14.7	13.0
72.5°	18501.6	8590.9	151.5	70.1	44.0	29.3	34.2	44.0	21.2	14.7	11.4
75°	13916.9	5498.7	115.7	50.5	32.6	22.8	26.1	32.6	21.2	13.0	11.4
77.5°	7572.7	1982.8	83.1	34.2	22.8	17.9	17.9	24.4	19.6	9.8	6.5
80°	1946.9	498.5	52.1	22.8	17.9	13.0	11.4	16.3	11.4	1.6	0.0
82.5°	480.6	112.4	27.7	16.3	13.0	4.9	4.9	8.1	4.9	0.0	0.0
85°	263.9	55.4	17.9	11.4	6.5	0.0	0.0	1.6	0.0	0.0	0.0
87.5°	135.2	16.3	4.9	3.3	1.6	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)