

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: P459245

Luminaire Tested: **GALN-SA7B-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36853 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

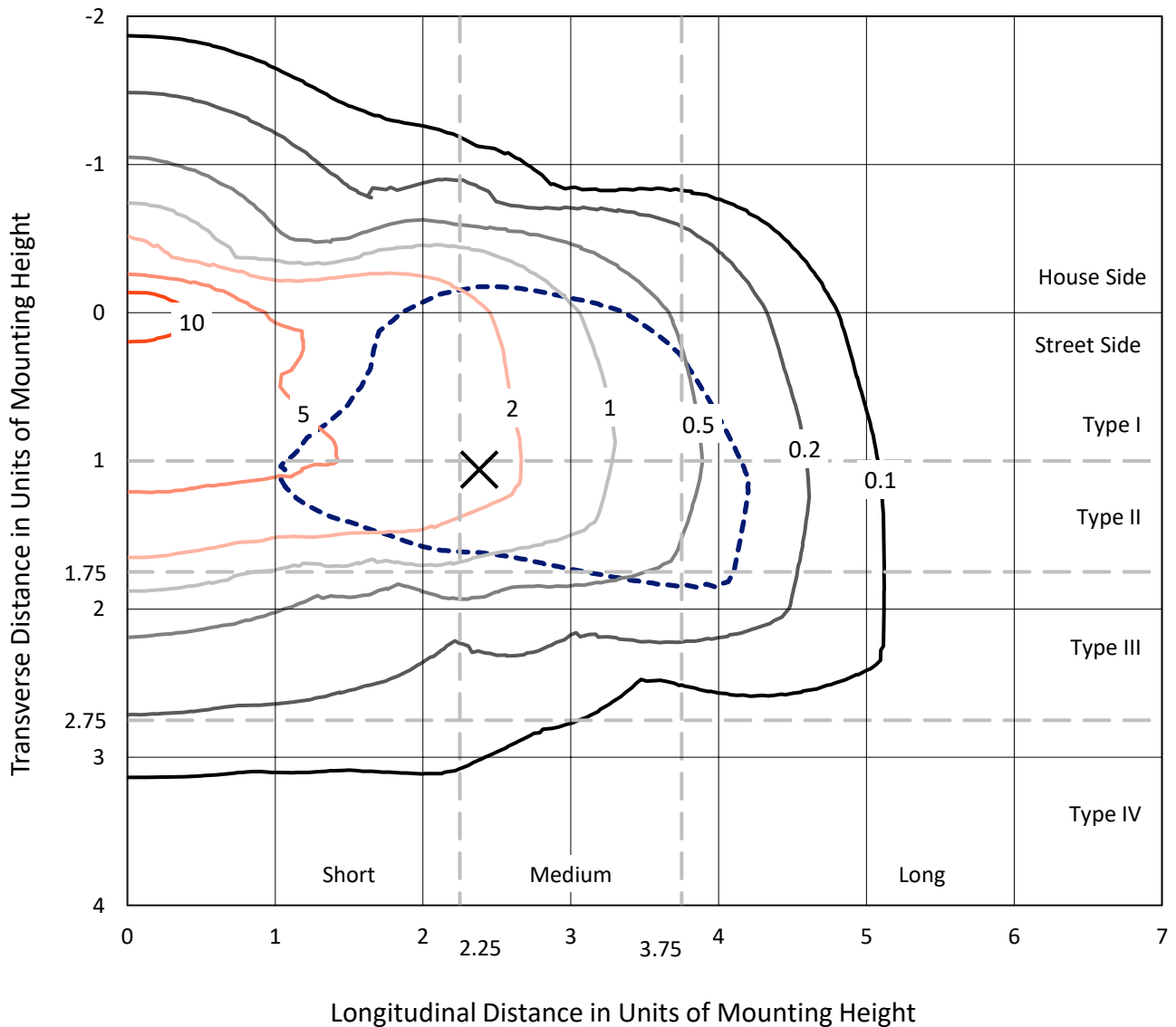
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459245
 CATALOG NUMBER: GALN-SA7B-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

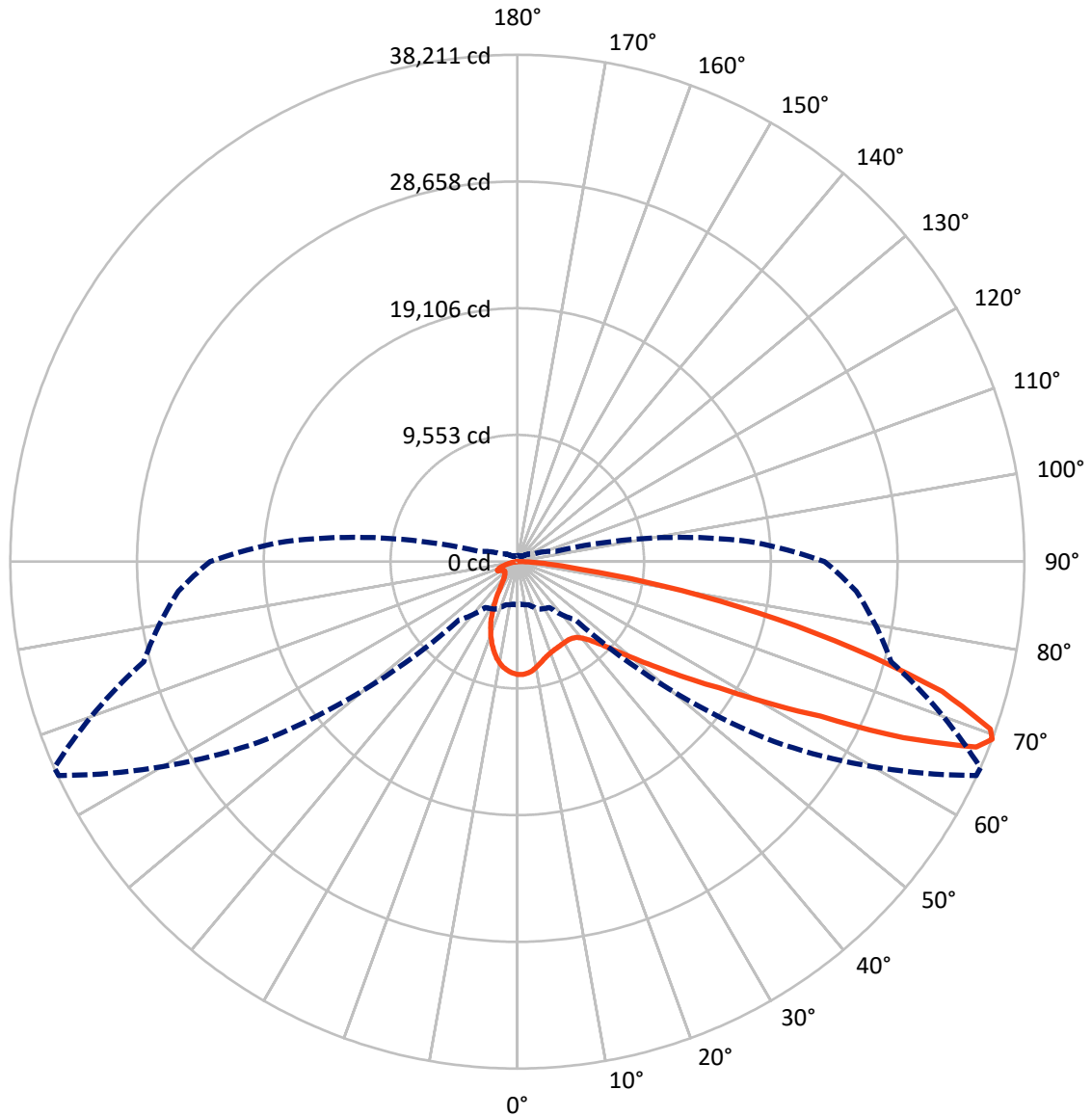
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P459245
CATALOG NUMBER: GALN-SA7B-735-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P459245

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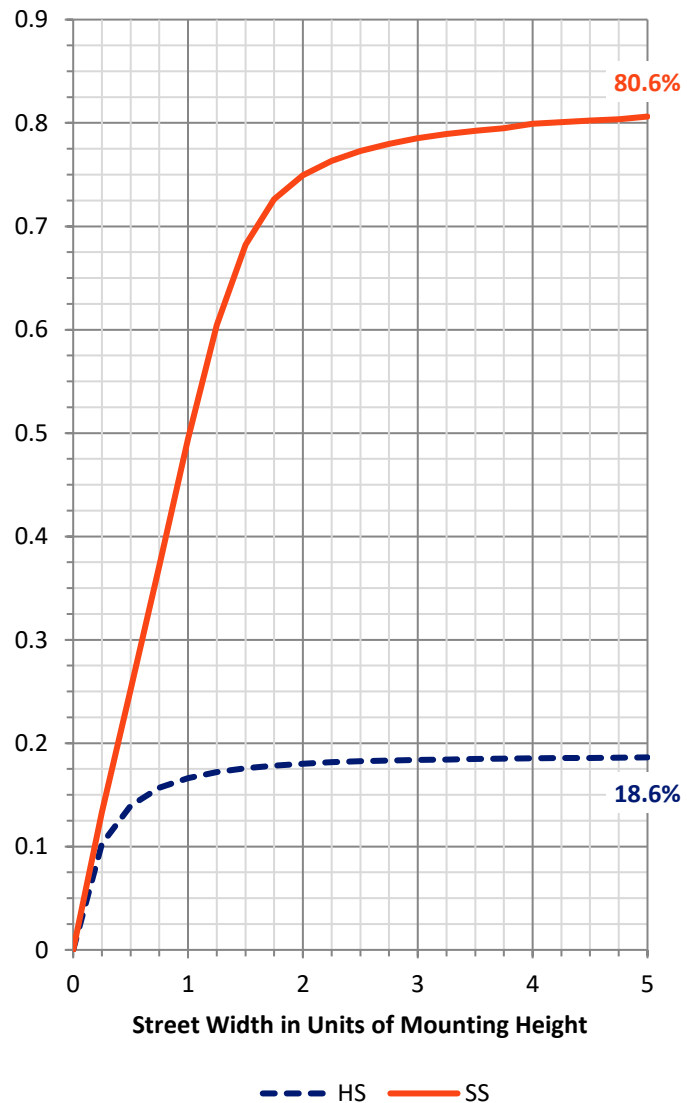
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6930.7	0.0	6930.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29922.3	0.0	29922.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	36853.0	0.0	36853.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.0	2.0
10°-20°	1752.9	4.8
20°-30°	2386.4	6.5
30°-40°	3206.8	8.7
40°-50°	4788.3	13.0
50°-60°	7616.5	20.7
60°-70°	9367.9	25.4
70°-80°	6095.2	16.5
80°-90°	900.1	2.4
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°	36853.0	100.0
0°-180°	36853.0	100.0



REPORT NUMBER: P459245

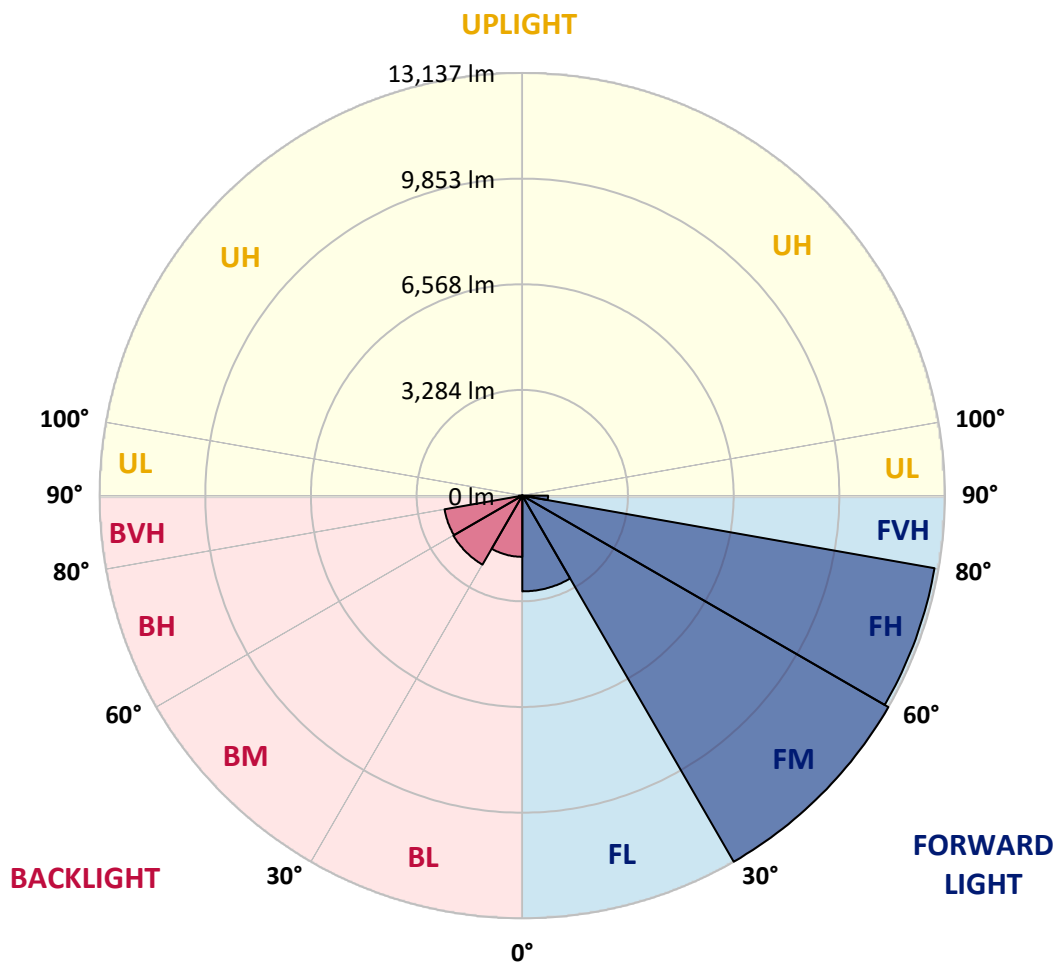
CATALOG NUMBER: GALN-SA7B-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2975.8	8.1			
FM	(30°-60°)	13137.0	35.6			
FH	(60°-80°)	13009.3	35.3			G5
FVH	(80°-90°)	800.2	2.2			G5
BL	(0°-30°)	1902.5	5.2	B3/2500		
BM	(30°-60°)	2474.6	6.7	B2/2500		
BH	(60°-80°)	2453.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	99.9	0.3			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





REPORT NUMBER: P459245

CATALOG NUMBER: GALN-SA7B-735-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4
2.5°	8212.4	8245.1	8281.8	8322.6	8400.2	8443.0	8473.6	8508.3	8512.4	8530.8	8516.5
5°	7606.3	7645.1	7700.2	7777.7	7894.0	8075.7	8263.4	8416.5	8434.9	8520.6	8545.1
7.5°	7100.1	7122.6	7167.5	7292.0	7457.3	7659.3	7932.8	8243.0	8287.9	8492.0	8563.4
10°	6687.9	6710.3	6763.4	6892.0	7055.2	7308.3	7608.3	8016.5	8053.2	8404.3	8567.5
12.5°	6379.7	6400.1	6457.3	6583.8	6771.6	7008.3	7338.9	7771.6	7824.7	8287.9	8528.7
15°	6145.0	6183.8	6230.7	6334.8	6532.8	6761.4	7081.8	7547.1	7590.0	8165.5	8502.2
17.5°	6045.0	6063.4	6096.0	6192.0	6336.9	6561.4	6883.8	7371.6	7422.6	8079.8	8496.1
20°	6049.1	6067.5	6073.6	6126.7	6230.7	6424.6	6743.0	7232.8	7294.0	8004.2	8506.3
22.5°	6187.9	6189.9	6167.5	6149.1	6189.9	6351.2	6643.0	7128.7	7200.2	7971.6	8514.5
25°	6402.2	6438.9	6406.3	6320.5	6245.0	6322.6	6604.2	7071.6	7138.9	7924.7	8504.3
27.5°	6749.1	6755.2	6728.7	6612.4	6416.5	6359.3	6587.9	7028.7	7085.9	7890.0	8453.2
30°	7214.4	7196.1	7171.6	7043.0	6734.8	6500.1	6622.6	6989.9	7049.1	7838.9	8392.0
32.5°	7685.9	7743.0	7720.6	7569.5	7169.5	6773.6	6734.8	6985.9	7034.8	7800.2	8324.7
35°	8185.9	8212.4	8318.5	8241.0	7830.8	7216.5	6945.0	7049.1	7087.9	7802.2	8277.7
37.5°	8577.7	8649.2	8898.1	8965.5	8579.8	7802.2	7285.9	7228.7	7245.0	7902.2	8296.1
40°	9051.2	9173.7	9494.1	9769.6	9516.5	8563.4	7865.5	7561.4	7581.8	8143.0	8416.5
42.5°	9651.2	9736.9	10167.6	10541.0	10500.2	9569.6	8567.5	8106.3	8116.5	8622.6	8753.2
45°	10353.3	10475.7	10959.4	11520.6	11616.6	10708.4	9581.8	8930.8	8924.7	9367.5	9381.8
47.5°	11251.3	11326.8	11806.4	12418.6	12806.4	12139.0	10812.5	10114.5	10049.2	10453.3	10337.0
50°	12077.8	12196.2	12559.4	13228.8	14194.2	13814.6	12430.9	11649.2	11496.2	11873.7	11677.8
52.5°	12424.7	12549.2	12855.4	13686.0	15384.0	15982.0	14486.0	13479.9	13224.8	13514.6	13443.1
55°	11822.7	11983.9	12269.6	13279.9	15906.5	18482.0	17257.5	15596.2	15410.5	15286.0	15306.4
57.5°	10204.3	10357.4	10743.1	11857.4	15282.0	20296.3	21214.7	18316.7	17918.7	17345.3	17443.2
60°	7767.5	7863.4	8063.4	9298.2	13430.9	20767.8	25708.7	21755.6	21502.5	19396.3	19465.7
62.5°	5516.4	5624.6	5763.4	6379.7	9832.9	19439.2	29227.1	26557.7	25653.6	21520.9	21453.5
65°	4479.7	4406.2	4573.6	4861.3	5769.5	15065.6	30019.0	33223.1	31978.2	24318.9	23384.2
67.5°	3683.8	3606.2	3771.5	4283.8	4387.8	8745.1	27165.9	37549.8	37300.8	27361.8	25345.4
69°	3261.3	3220.5	3365.4	3949.1	4212.3	6210.3	23665.8	38151.8	38211.0	29155.7	25647.5
70°	2938.8	2955.2	3096.0	3779.7	4132.7	5120.5	20227.0	37321.2	37823.2	30051.6	25320.9
72.5°	2163.3	2198.0	2393.9	3130.7	4057.2	4345.0	12037.0	32598.6	33486.4	30104.7	23163.7
75°	1512.3	1495.9	1669.4	2357.2	3832.7	4306.2	7069.5	25210.7	26216.9	26021.0	19463.7
77.5°	989.8	1016.3	1155.1	1665.3	3224.6	4273.6	4608.3	17886.1	18539.2	17402.4	11512.5
80°	698.0	695.9	773.5	1136.8	2391.9	4106.2	3773.5	11273.7	11108.4	6838.9	3414.4
82.5°	400.0	428.6	518.4	800.0	1600.0	3614.4	3471.5	5391.9	4922.6	1949.0	1153.1
85°	222.5	232.7	308.2	483.7	934.7	2722.5	3030.7	2453.1	2314.3	814.3	495.9
87.5°	71.4	77.6	128.6	244.9	424.5	1285.7	1716.4	1132.7	1044.9	293.9	200.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459245

CATALOG NUMBER: GALN-SA7B-735-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4	8510.4
2.5°	8522.6	8547.1	8481.8	8418.5	8361.4	8281.8	8210.4	8151.2	8110.4	8104.3	8083.8
5°	8551.2	8553.2	8428.7	8261.4	8098.1	7918.5	7732.8	7600.2	7475.7	7406.3	7371.6
7.5°	8571.6	8553.2	8328.7	8057.3	7743.0	7416.5	7089.9	6828.7	6626.7	6547.1	6577.7
10°	8563.4	8506.3	8177.7	7743.0	7285.9	6798.1	6328.7	5961.3	5624.6	5451.1	5455.2
12.5°	8518.5	8424.7	7953.2	7390.0	6718.5	6065.4	5347.1	4851.1	4461.3	4230.7	4159.3
15°	8479.8	8316.5	7690.0	6910.3	6075.6	5143.0	4267.4	3655.2	3328.6	3147.0	3145.0
17.5°	8439.0	8212.4	7402.2	6402.2	5336.8	4136.8	3218.4	2751.1	2598.0	2616.4	2585.8
20°	8396.1	8090.0	7102.2	5836.9	4436.8	3085.8	2410.3	2220.5	2263.3	2347.0	2359.2
22.5°	8347.1	7959.3	6779.7	5214.4	3489.9	2322.5	1955.1	1926.6	2036.8	2167.4	2185.8
25°	8271.6	7796.1	6373.6	4563.4	2691.9	1871.5	1712.3	1732.7	1840.9	1951.1	1963.3
27.5°	8165.5	7594.0	5963.4	3751.1	2022.5	1606.2	1565.3	1591.9	1644.9	1712.3	1728.6
30°	8022.6	7365.5	5492.0	3049.0	1620.4	1473.5	1457.2	1471.5	1502.1	1530.6	1538.8
32.5°	7879.8	7145.0	5016.4	2334.7	1444.9	1385.7	1369.4	1369.4	1369.4	1373.5	1375.5
35°	7747.1	6936.9	4506.2	1818.4	1353.1	1316.4	1293.9	1269.4	1265.3	1251.0	1251.0
37.5°	7673.6	6747.1	3963.3	1522.5	1285.7	1259.2	1228.6	1187.8	1165.3	1167.4	1163.3
40°	7687.9	6622.6	3469.5	1355.1	1230.6	1202.1	1155.1	1108.2	1093.9	1093.9	1089.8
42.5°	7849.1	6581.8	2996.0	1267.4	1177.6	1144.9	1085.7	1042.9	1034.7	1032.7	1036.8
45°	8220.6	6681.8	2571.5	1210.2	1132.7	1083.7	1024.5	985.7	977.6	977.6	975.5
47.5°	8945.1	7006.3	2267.4	1173.5	1100.0	1036.8	975.5	936.8	922.5	918.4	918.4
50°	10071.6	7710.4	2040.9	1140.8	1059.2	993.9	930.6	885.7	863.3	861.2	859.2
52.5°	11637.0	8808.3	1953.1	1116.3	1014.3	949.0	879.6	836.8	808.2	802.1	798.0
55°	13467.6	10341.0	2073.5	1098.0	967.4	898.0	826.5	781.6	755.1	742.9	740.8
57.5°	15588.1	12181.9	2530.7	1073.5	924.5	842.9	773.5	728.6	700.0	685.7	681.6
60°	17492.2	14073.8	3328.6	1059.2	887.8	783.7	712.3	671.4	644.9	630.6	628.6
62.5°	19584.1	15877.9	4281.7	1098.0	871.4	726.5	655.1	618.4	595.9	581.6	581.6
65°	21818.8	17684.0	4912.3	1228.6	895.9	681.6	593.9	563.3	542.9	532.7	530.6
67.5°	23325.0	18308.5	4047.0	1363.3	957.2	632.7	534.7	510.2	498.0	487.8	487.8
69°	23161.7	17518.7	2985.8	1398.0	975.5	608.2	502.1	483.7	467.4	463.3	459.2
70°	22645.4	16618.7	2502.1	1375.5	961.2	585.7	481.6	459.2	444.9	440.8	438.8
72.5°	20169.8	14412.5	1863.3	1195.9	818.4	508.2	426.5	406.1	393.9	387.8	387.8
75°	16757.5	11779.8	1455.1	951.0	640.8	428.6	365.3	349.0	338.8	334.7	332.7
77.5°	9392.0	6577.7	1044.9	744.9	485.7	346.9	306.1	291.8	281.6	277.6	277.6
80°	2616.4	1879.6	614.3	491.8	330.6	263.3	242.9	232.7	218.4	208.2	214.3
82.5°	985.7	814.3	351.0	295.9	210.2	175.5	169.4	161.2	155.1	140.8	140.8
85°	479.6	395.9	224.5	157.1	116.3	91.8	87.8	83.7	79.6	69.4	71.4
87.5°	165.3	175.5	98.0	57.1	34.7	22.4	18.4	10.2	10.2	10.2	10.2
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)