

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: P533561

Luminaire Tested: **GALN-SA9A-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22038 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

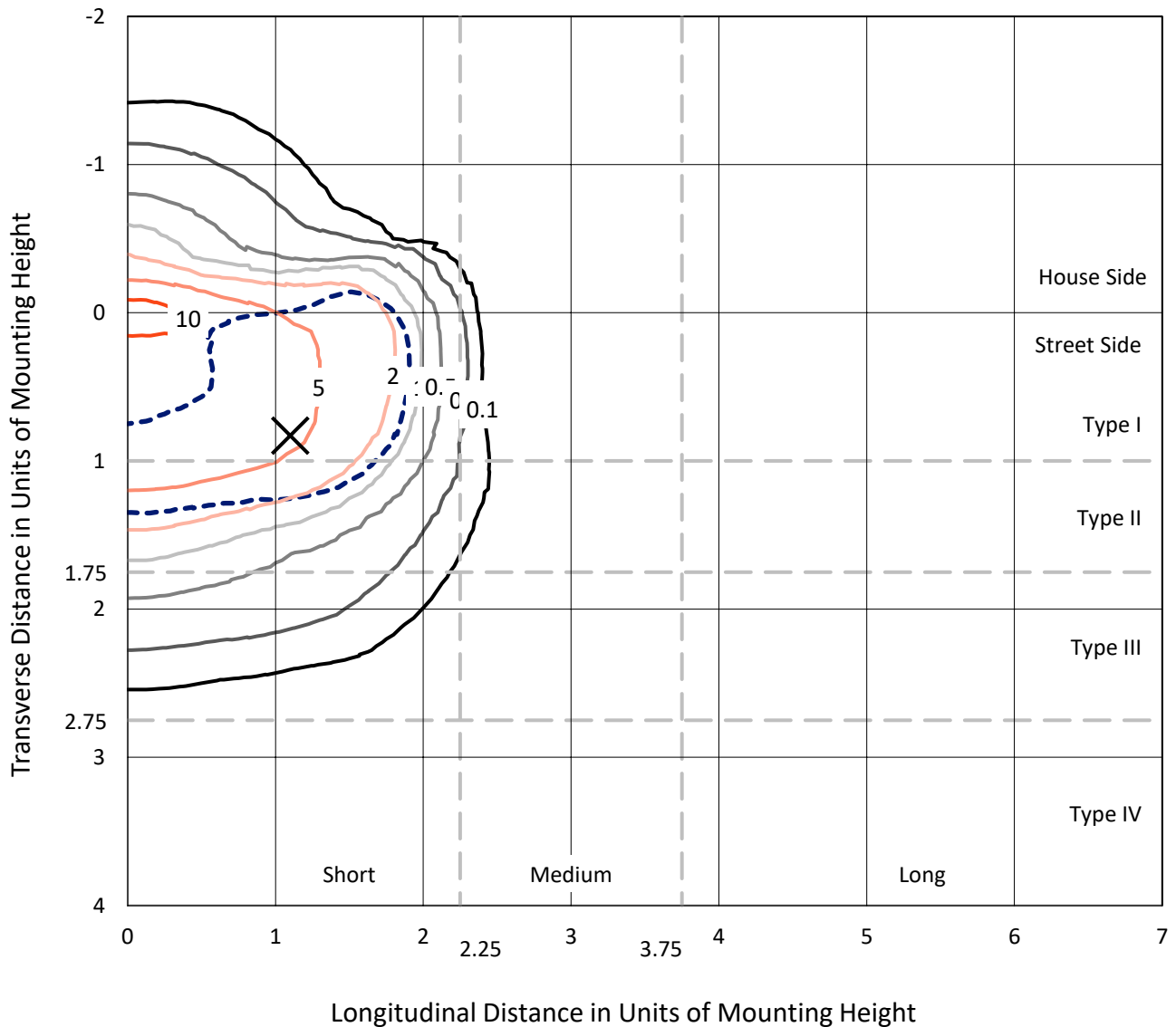
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533561
 CATALOG NUMBER: GALN-SA9A-730-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

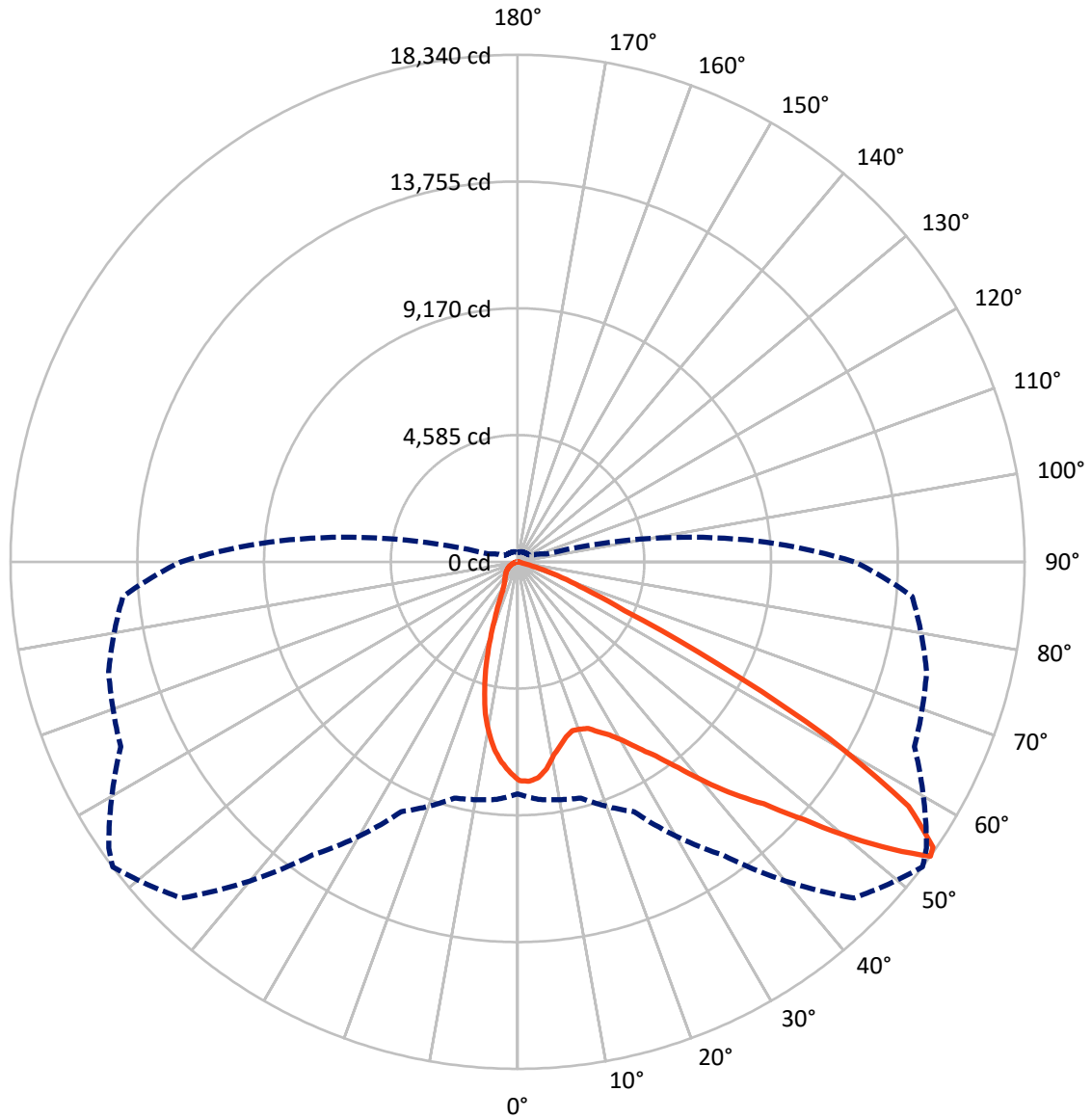
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

REPORT NUMBER: P533561
CATALOG NUMBER: GALN-SA9A-730-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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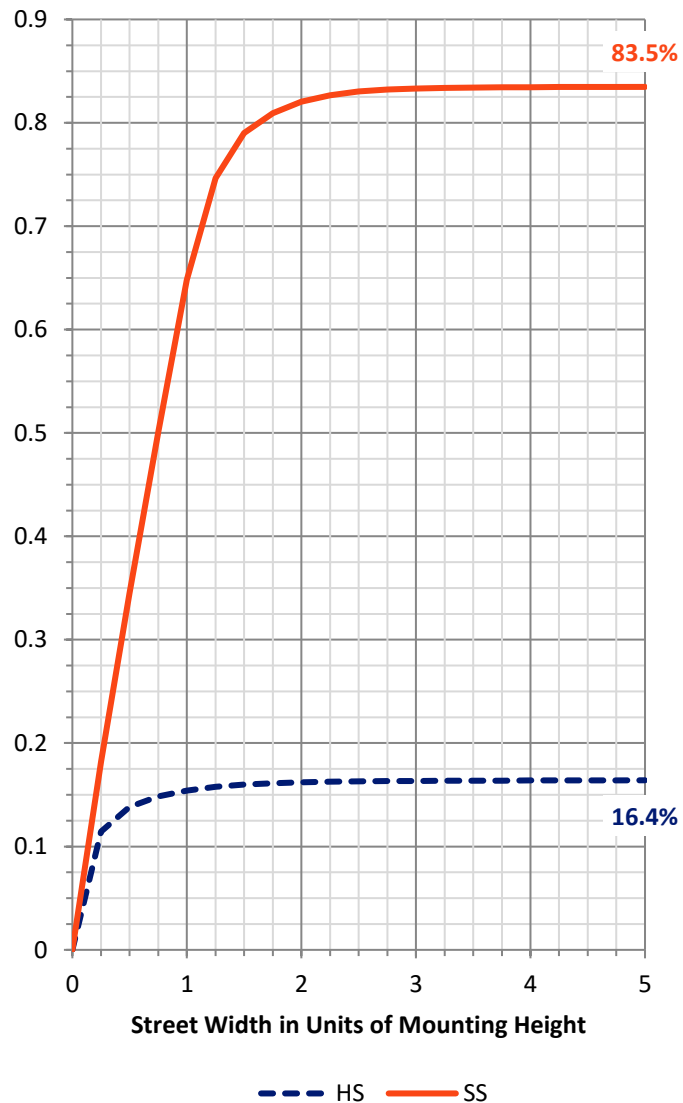
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3646.2	0.0	3646.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18391.8	0.0	18391.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	22038.0	0.0	22038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.1	3.1
10°-20°	1557.1	7.1
20°-30°	2212.9	10.0
30°-40°	3415.1	15.5
40°-50°	5354.6	24.3
50°-60°	6220.1	28.2
60°-70°	2350.3	10.7
70°-80°	223.5	1.0
80°-90°	25.2	0.1
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°	22038.0	100.0
0°-180°	22038.0	100.0

Coefficient of Utilization

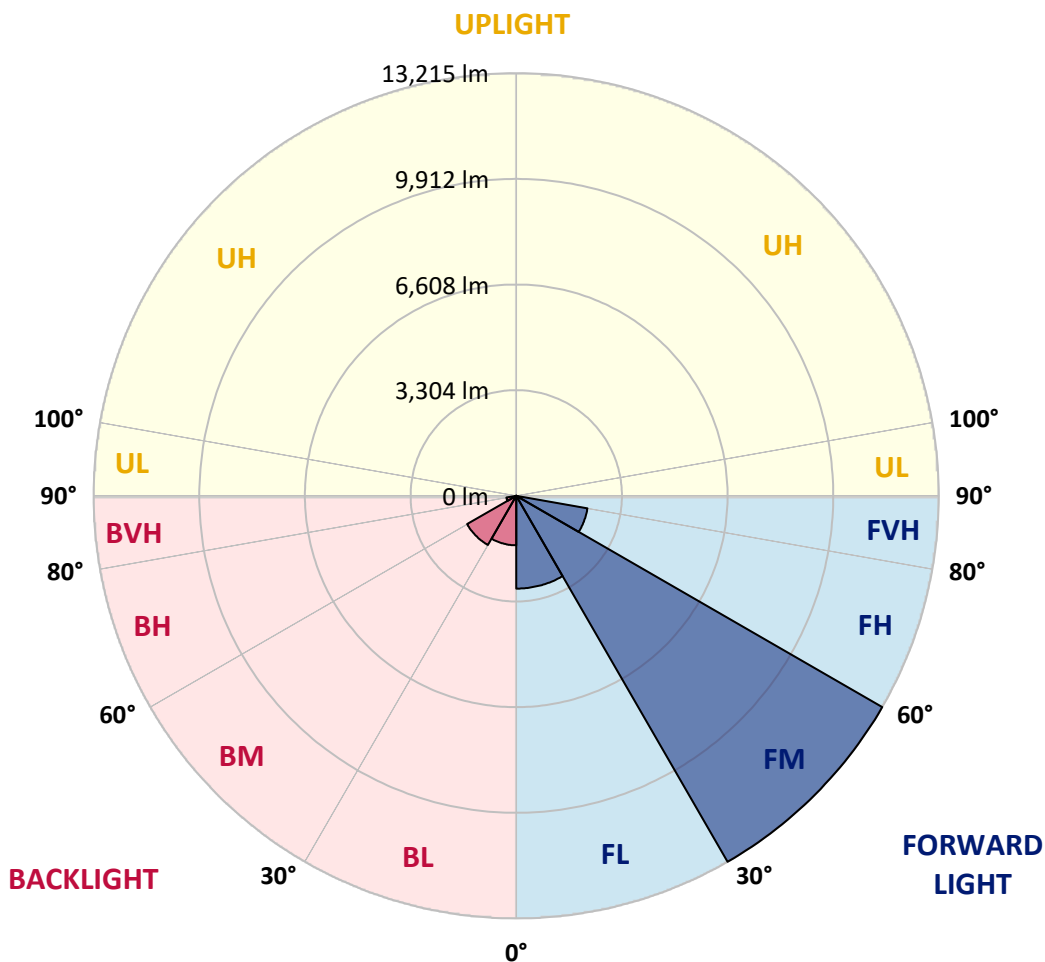


REPORT NUMBER: P533561
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2901.8	13.2			
FM (30°-60°)	13215.5	60.0			
FH (60°-80°)	2261.4	10.3			G2/5000
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	1547.3	7.0	B3/2500		
BM (30°-60°)	1774.4	8.1	B2/2500		
BH (60°-80°)	312.4	1.4	B1/500		G1/500
BVH (80°-90°)	12.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CATALOG NUMBER: GALN-SA9A-730-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7
2.5°	7874.6	7804.8	7874.6	7882.8	7932.1	7977.3	7948.5	8014.2	7977.3	7936.2	7923.9
5°	7238.2	7332.7	7336.8	7484.6	7451.7	7722.7	7841.8	7808.9	8010.1	7997.8	7969.1
7.5°	6667.6	6630.6	6679.9	6852.3	7069.9	7381.9	7554.4	7550.3	7837.7	8043.0	8022.4
10°	6137.9	6133.8	6236.5	6372.0	6556.7	6885.2	7123.3	7242.4	7689.9	8001.9	8047.1
12.5°	5780.7	5764.3	5875.2	5986.0	6277.5	6532.1	6835.9	6893.4	7406.6	7858.2	7932.1
15°	5546.7	5583.7	5591.9	5805.4	5990.1	6326.8	6564.9	6684.0	7275.2	7743.2	8026.5
17.5°	5505.7	5554.9	5559.0	5735.6	5932.7	6215.9	6425.3	6585.4	7164.3	7800.7	8030.6
20°	5587.8	5559.0	5583.7	5694.5	5887.5	6158.5	6462.3	6515.7	7127.4	7829.5	8075.8
22.5°	5821.8	5813.6	5752.0	5842.3	5977.8	6261.1	6548.5	6630.6	7234.1	7977.3	8112.7
25°	6080.5	6125.6	6068.1	6055.8	6150.3	6429.4	6811.3	6918.0	7591.3	8244.1	8227.7
27.5°	6564.9	6519.8	6519.8	6462.3	6437.6	6573.1	7094.5	7271.1	7989.6	8589.0	8359.1
30°	7028.9	7078.1	7041.2	7061.7	6897.5	6885.2	7496.9	7714.5	8695.8	9114.5	8638.3
32.5°	7763.8	7698.1	7759.7	7706.3	7488.7	7267.0	8043.0	8268.8	9549.7	9718.1	9057.0
35°	8375.5	8346.8	8609.5	8601.3	8248.2	8030.6	8621.8	8958.5	10145.0	10440.6	9549.7
37.5°	9245.9	9192.5	9492.2	9635.9	9319.8	8995.5	9451.2	9841.2	10699.3	11019.5	10054.7
40°	10140.9	10276.4	10678.8	10916.9	10580.2	10149.1	10465.3	10584.3	11068.8	11397.3	10399.6
42.5°	11274.1	11471.2	11881.7	12087.0	12058.3	11590.2	11495.8	11491.7	11335.7	11290.5	10654.1
45°	12362.1	12288.2	12920.5	13368.0	13729.3	13593.8	12489.4	12366.2	11758.6	11450.6	10719.8
47.5°	12838.3	12813.7	13244.8	14041.3	15273.0	15441.3	13934.5	13458.3	12472.9	12124.0	11077.0
50°	12222.5	12349.8	12776.8	13659.5	15548.1	16833.1	15708.2	15067.7	13306.4	12945.1	11922.8
52.5°	10210.7	10297.0	10703.4	11824.2	14612.0	17654.3	17407.9	17038.4	14837.8	14238.4	13396.7
54°	8396.0	8626.0	8847.7	9972.6	12945.1	17198.5	18339.9	18056.6	15835.5	15314.0	14324.6
55°	7312.1	7447.6	7607.8	8728.6	11791.4	16426.7	18233.2	18257.8	16504.7	15650.7	14948.6
57.5°	5341.4	5435.9	5271.6	5768.4	8096.3	13339.2	16677.1	17342.2	17407.9	16155.7	15330.5
60°	4081.0	4122.1	3937.3	4015.3	5033.5	9155.6	12899.9	13700.5	15704.1	14119.3	12986.1
62.5°	3165.5	3173.7	3169.6	3305.0	3469.3	5386.6	8067.6	8777.9	10826.6	10026.0	8818.9
65°	2332.0	2295.1	2360.7	2771.3	2960.2	3387.2	4249.3	4766.7	5883.4	4967.8	3551.4
67.5°	1510.9	1523.2	1588.9	2061.0	2537.3	2598.9	2615.3	2574.2	2578.3	1420.6	890.9
70°	907.3	927.9	907.3	1166.0	1814.7	1864.0	1703.8	1662.8	1297.4	336.7	332.6
72.5°	537.8	509.1	455.7	500.9	755.4	903.2	812.9	808.8	509.1	197.1	197.1
75°	225.8	205.3	168.3	151.9	201.2	193.0	193.0	172.4	135.5	131.4	123.2
77.5°	45.2	45.2	32.8	37.0	49.3	57.5	69.8	69.8	82.1	82.1	78.0
80°	0.0	4.1	12.3	24.6	37.0	53.4	61.6	61.6	69.8	69.8	57.5
82.5°	0.0	4.1	12.3	24.6	32.8	49.3	61.6	61.6	69.8	73.9	61.6
85°	0.0	4.1	12.3	20.5	32.8	41.1	41.1	37.0	28.7	24.6	16.4
87.5°	0.0	0.0	4.1	8.2	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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°	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7	7915.7
2.5°	7952.6	7948.5	7850.0	7689.9	7652.9	7517.4	7501.0	7418.9	7464.1	7312.1	7295.7
5°	7886.9	7837.7	7718.6	7616.0	7316.3	7102.8	6934.4	6729.1	6610.1	6630.6	6552.6
7.5°	7981.4	7854.1	7644.7	7287.5	6922.1	6548.5	6347.3	5928.5	5776.6	5550.8	5518.0
10°	7882.8	7788.4	7464.1	6872.8	6367.9	5830.0	5357.9	4893.9	4540.8	4388.9	4356.1
12.5°	7874.6	7710.4	7168.5	6511.5	5780.7	5008.9	4323.2	3744.3	3395.4	3198.3	3153.1
15°	7747.3	7550.3	6835.9	5953.2	4943.2	3982.5	3235.2	2676.9	2410.0	2295.1	2327.9
17.5°	7759.7	7464.1	6503.3	5362.0	4118.0	2923.2	2208.8	1921.4	1851.6	1880.4	1880.4
20°	7747.3	7271.1	6101.0	4680.4	3153.1	2028.2	1621.7	1519.1	1564.2	1654.6	1634.0
22.5°	7681.7	7180.8	5731.5	3961.9	2319.7	1502.7	1301.5	1305.6	1375.4	1486.2	1510.9
25°	7730.9	6979.6	5263.4	3235.2	1691.5	1198.8	1129.1	1157.8	1231.7	1313.8	1330.2
27.5°	7694.0	6835.9	4774.9	2512.7	1235.8	1030.5	1026.4	1059.3	1092.1	1153.7	1153.7
30°	7735.0	6704.5	4294.5	1868.1	1018.2	944.3	927.9	952.5	985.4	997.7	993.6
32.5°	7886.9	6606.0	3740.2	1395.9	899.1	862.2	862.2	862.2	858.1	874.5	878.6
35°	8219.5	6622.4	3251.7	1079.8	821.1	792.4	780.1	763.6	755.4	763.6	767.8
37.5°	8580.8	6614.2	2746.7	919.7	763.6	739.0	710.3	685.6	681.5	689.7	677.4
40°	8740.9	6692.2	2278.6	825.2	710.3	681.5	636.4	615.8	620.0	628.2	620.0
42.5°	8958.5	6716.8	1974.8	751.3	661.0	615.8	587.1	562.5	558.4	570.7	566.6
45°	8954.4	6577.2	1654.6	710.3	615.8	566.6	529.6	509.1	509.1	517.3	521.4
47.5°	9217.2	6556.7	1420.6	673.3	583.0	533.7	488.6	472.1	468.0	468.0	459.8
50°	9828.9	6844.1	1239.9	632.3	541.9	496.8	459.8	439.3	422.9	414.7	410.6
52.5°	11023.6	7739.1	1100.3	583.0	496.8	459.8	427.0	410.6	390.0	369.5	365.4
54°	12181.4	8662.9	1092.1	541.9	459.8	435.2	406.5	398.2	373.6	344.9	336.7
55°	12702.9	9200.7	1120.8	509.1	435.2	418.8	394.1	385.9	361.3	328.5	324.3
57.5°	13133.9	9410.1	1104.4	422.9	394.1	390.0	369.5	357.2	328.5	283.3	275.1
60°	10572.0	7115.1	792.4	373.6	361.3	353.1	336.7	328.5	291.5	242.2	238.1
62.5°	6679.9	4093.3	505.0	328.5	316.1	303.8	283.3	275.1	242.2	193.0	180.6
65°	2845.2	1695.6	340.8	291.5	271.0	250.4	234.0	221.7	193.0	143.7	139.6
67.5°	739.0	603.5	283.3	254.5	225.8	197.1	184.8	164.2	131.4	98.5	94.4
70°	332.6	303.8	238.1	213.5	180.6	151.9	135.5	115.0	86.2	65.7	61.6
72.5°	197.1	193.0	180.6	160.1	135.5	115.0	98.5	78.0	57.5	37.0	37.0
75°	123.2	119.1	123.2	110.9	94.4	86.2	73.9	53.4	32.8	16.4	16.4
77.5°	73.9	73.9	73.9	69.8	65.7	65.7	53.4	32.8	16.4	4.1	4.1
80°	57.5	57.5	61.6	57.5	57.5	57.5	45.2	24.6	8.2	0.0	0.0
82.5°	57.5	61.6	69.8	65.7	57.5	49.3	41.1	24.6	8.2	0.0	0.0
85°	16.4	12.3	20.5	28.7	41.1	37.0	28.7	20.5	8.2	0.0	0.0
87.5°	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1	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)