

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: P531608

Luminaire Tested: **GALN-SA6D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32894 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 368
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

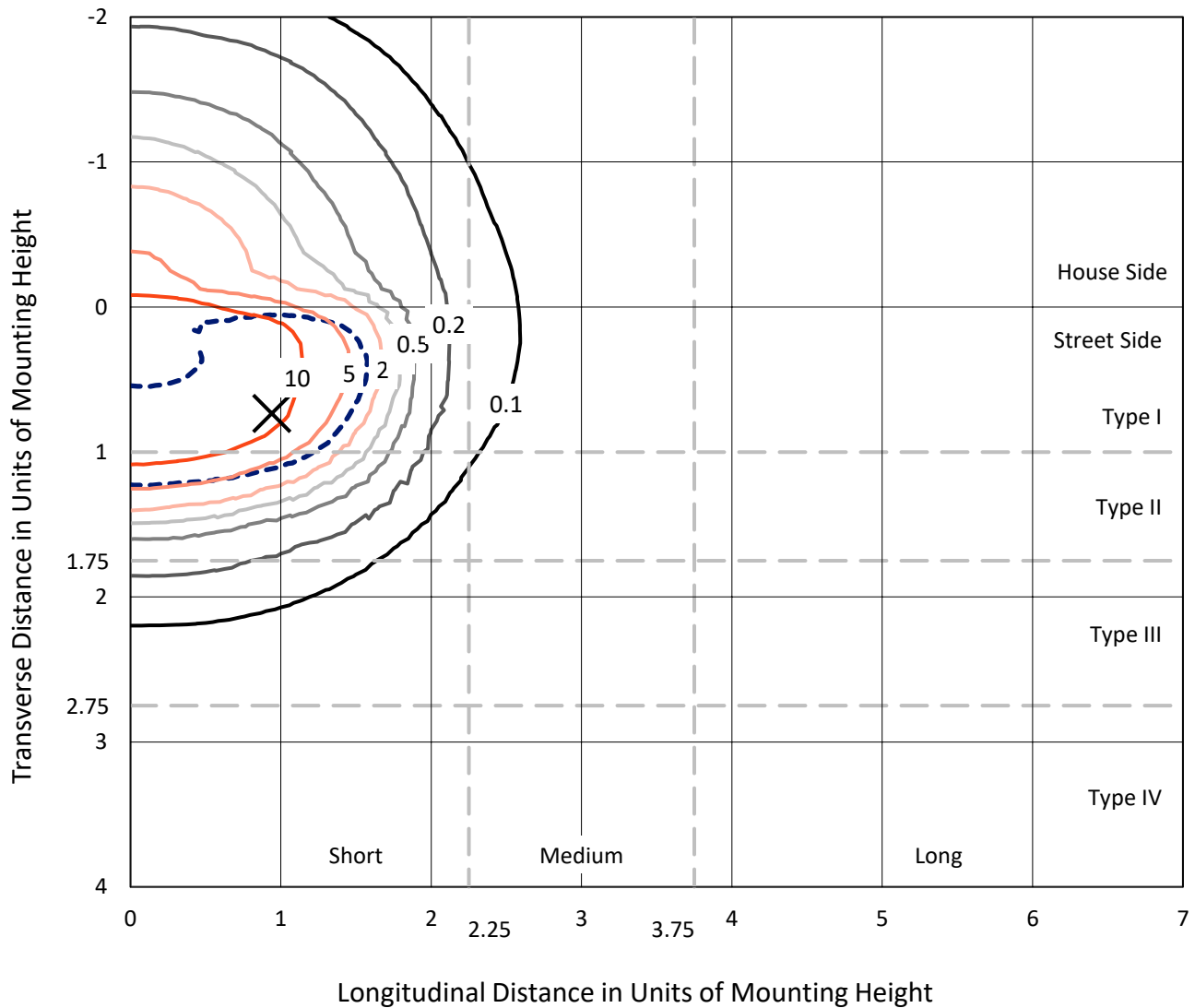


REPORT NUMBER: P531608

CATALOG NUMBER: GALN-SA6D-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

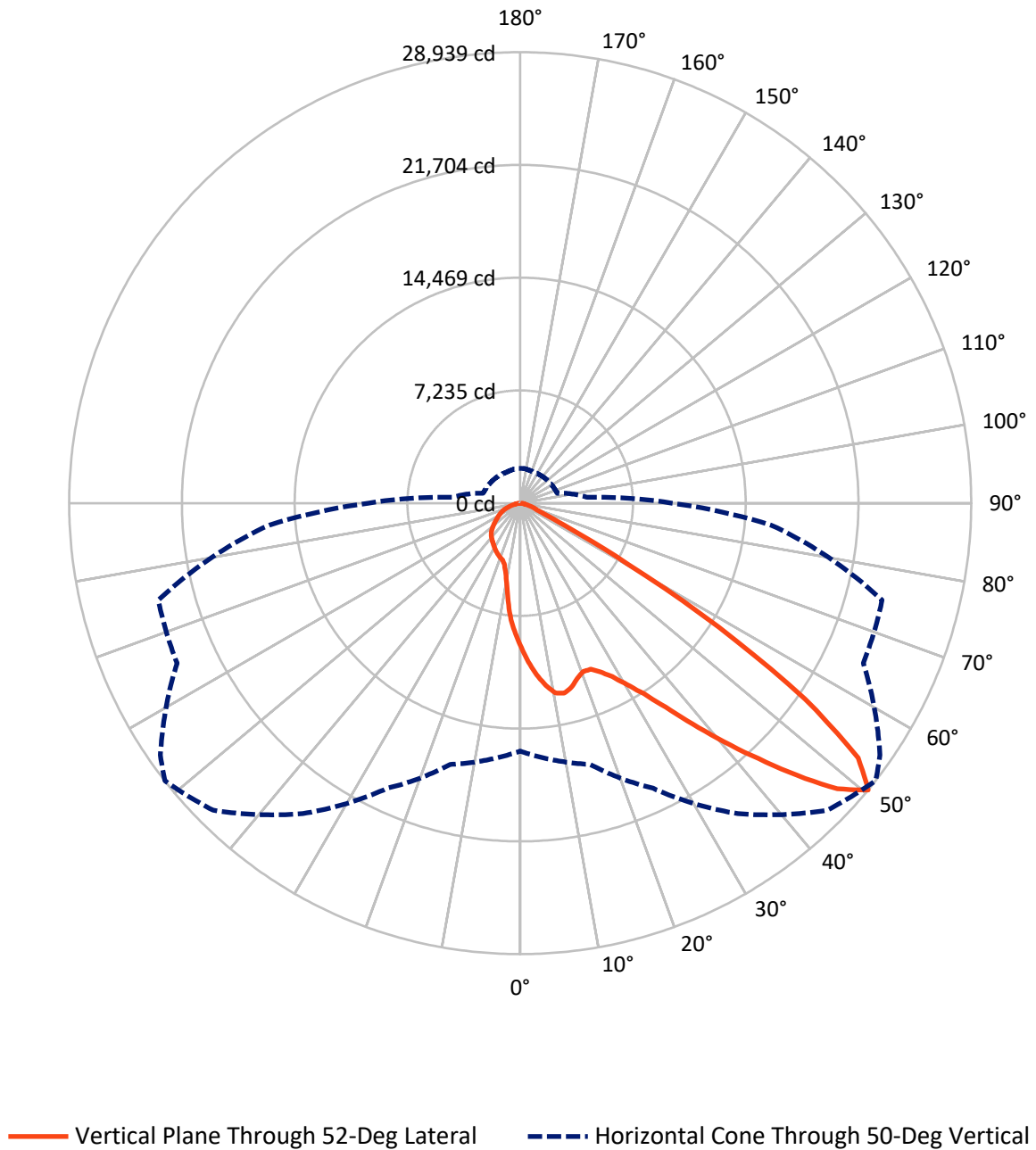
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

REPORT NUMBER: P531608
CATALOG NUMBER: GALN-SA6D-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531608

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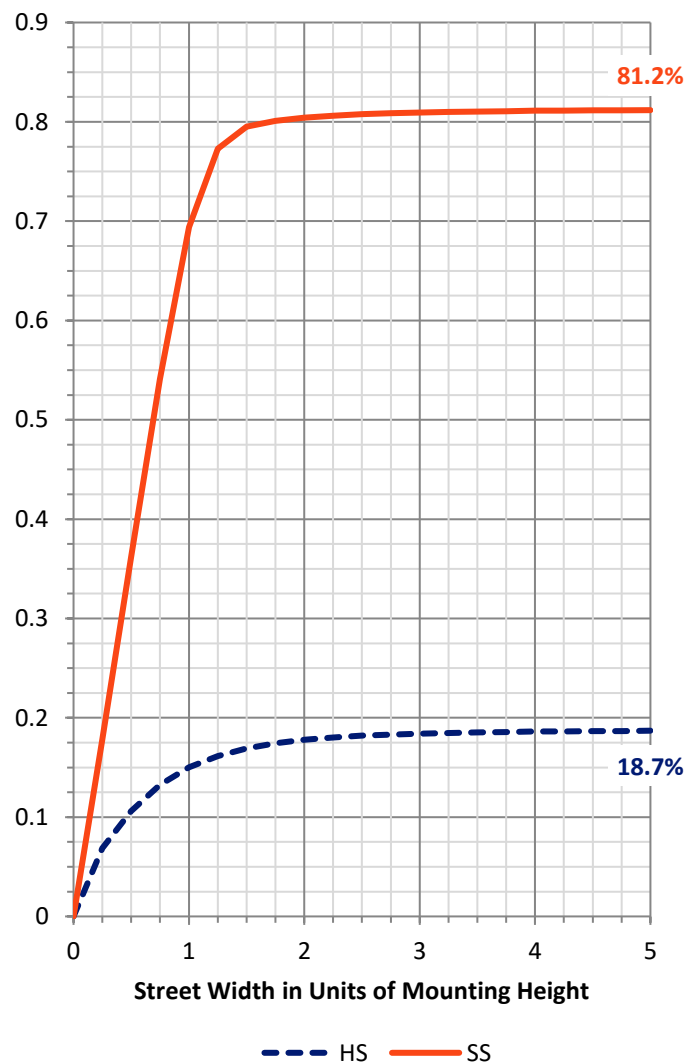
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6183.3	0.0	6183.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26710.7	0.0	26710.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	32894.0	0.0	32894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.6	2.6
10°-20°	2290.6	7.0
20°-30°	3858.4	11.7
30°-40°	6474.8	19.7
40°-50°	9904.8	30.1
50°-60°	7221.4	22.0
60°-70°	1607.1	4.9
70°-80°	579.7	1.8
80°-90°	102.6	0.3
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°	32894.0	100.0
0°-180°	32894.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531608

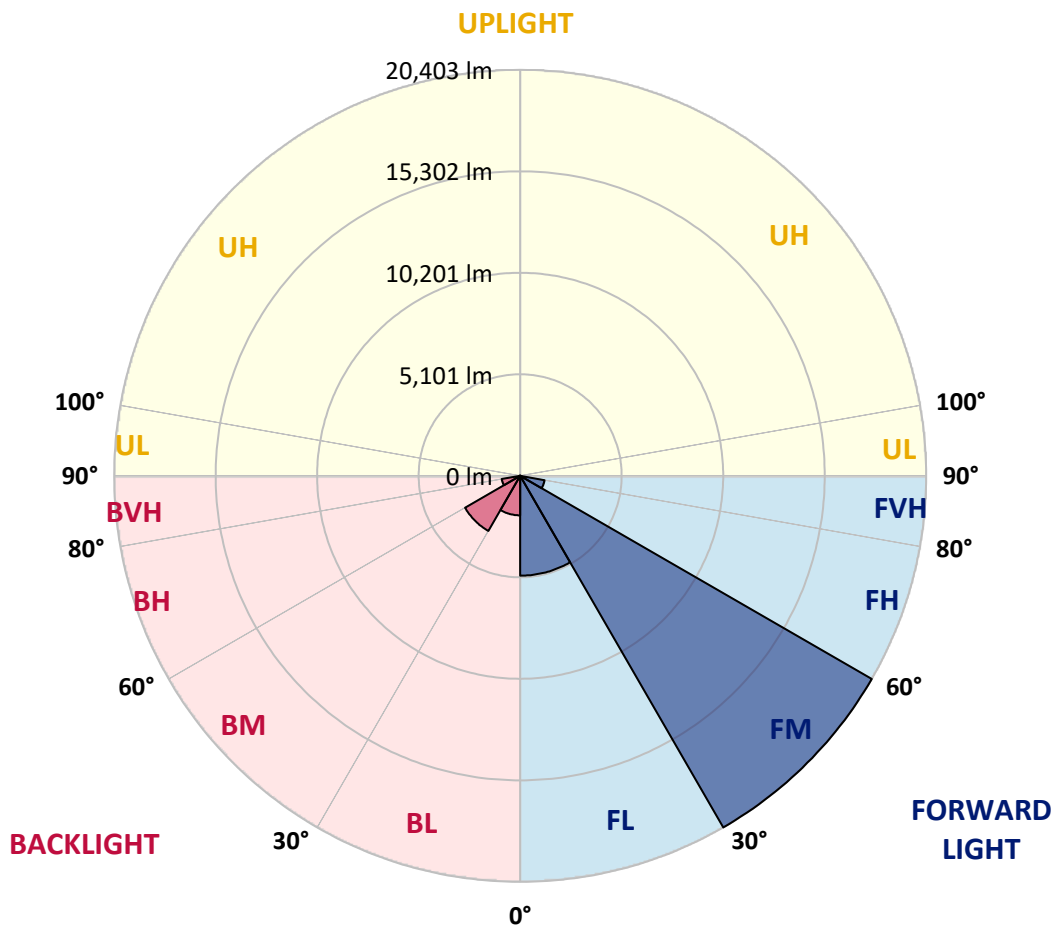
CATALOG NUMBER: GALN-SA6D-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5017.5	15.3			
FM	(30°-60°)	20402.5	62.0			
FH	(60°-80°)	1244.7	3.8			G1/1800
FVH	(80°-90°)	46.0	0.1			G1/100
BL	(0°-30°)	1986.2	6.0	B3/2500		
BM	(30°-60°)	3198.4	9.7	B3/5000		
BH	(60°-80°)	942.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	56.6	0.2			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



REPORT NUMBER: P531608

CATALOG NUMBER: GALN-SA6D-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3
2.5°	10917.4	10707.3	10731.1	10580.5	10417.9	10370.4	10203.9	10045.3	9926.4	9672.7	9438.8
5°	11932.3	11868.8	11773.7	11654.8	11531.9	11230.6	11060.1	10861.9	10425.9	10033.4	9644.9
7.5°	12078.9	12067.0	12118.6	12118.6	12162.2	12047.2	11805.4	11666.7	11202.8	10564.6	9843.1
10°	11048.2	11083.9	11333.7	11658.7	12110.6	12423.8	12384.2	12348.5	11841.1	10969.0	10077.0
12.5°	10227.6	10148.4	10295.0	10572.5	11250.4	12007.6	12519.0	12522.9	12392.1	11615.1	10247.5
15°	9763.8	9819.3	9859.0	9989.8	10501.2	11377.3	12277.1	12542.7	13117.6	12071.0	10517.0
17.5°	10061.1	9874.8	9866.9	9898.6	10160.3	10818.3	11829.2	12285.1	13514.0	12657.7	10850.0
20°	10449.6	10445.7	10334.7	10295.0	10291.1	10877.8	11535.8	12154.2	13724.1	13418.8	11187.0
22.5°	11131.5	11131.5	10949.1	10861.9	10675.6	11155.3	11575.5	11995.7	14072.9	13942.1	11349.5
25°	12273.2	12086.9	11773.7	11559.6	11452.6	11623.0	11995.7	12372.3	14378.2	14497.1	11686.5
27.5°	13327.7	13034.3	12879.7	12511.0	12368.3	12269.2	12610.1	12990.7	14734.9	15361.3	11868.8
30°	14524.8	14473.3	14195.8	13720.1	13367.3	13184.9	13498.1	13874.7	15389.0	16245.3	12289.0
32.5°	16665.5	16197.7	15821.1	15238.4	14663.6	14275.1	14584.3	14834.1	16475.2	17169.0	12748.9
35°	18976.6	18826.0	18175.9	17125.4	16245.3	15896.5	16078.8	16265.1	17739.8	18580.2	13521.9
37.5°	21248.1	21042.0	20506.8	19622.8	18552.5	17842.9	17973.7	18191.7	19159.0	20483.0	14465.4
40°	22881.4	22627.7	22358.1	22227.3	21164.9	20193.7	20118.3	20173.8	21077.7	22266.9	15511.9
42.5°	23000.3	23313.5	23396.7	23924.0	23674.2	22877.4	22413.6	22425.5	22909.1	24031.0	16570.4
45°	22750.6	22461.2	23075.6	24514.6	25339.2	25711.8	24930.9	24831.8	24042.9	25053.8	17097.6
47.5°	20130.2	20209.5	21248.1	23523.6	25906.1	27571.0	27388.7	27059.7	24649.4	25018.1	17014.4
50°	15912.3	16392.0	17355.3	20189.7	24320.4	27864.4	28938.7	28177.6	24288.7	24035.0	16166.0
52.5°	10596.3	10794.5	11428.8	15087.8	19555.4	24907.1	27154.8	27329.2	23955.7	22746.6	15091.7
55°	4717.4	4701.5	5593.5	7880.8	12269.2	18952.9	22187.7	23250.1	22675.2	21434.5	14045.2
57.5°	1998.0	2065.4	2430.1	3405.3	6033.5	11436.7	15032.3	15963.8	17438.5	17601.1	10774.7
60°	1351.8	1359.7	1458.8	1704.6	2525.2	5371.5	7884.8	9002.7	10057.2	9985.8	5716.4
62.5°	1062.4	1090.2	1165.5	1264.6	1498.5	2438.0	3528.1	4150.5	4217.9	3548.0	2168.4
65°	907.8	911.8	987.1	1070.3	1173.4	1419.2	1700.6	1732.4	1752.2	1688.8	1593.6
67.5°	749.2	757.2	816.6	911.8	1006.9	1086.2	1165.5	1205.1	1296.3	1474.7	1450.9
70°	594.6	606.5	658.1	737.3	824.6	872.1	971.2	1006.9	1090.2	1228.9	1284.4
72.5°	451.9	455.9	499.5	555.0	634.3	681.8	765.1	804.7	860.2	979.2	1030.7
75°	325.1	337.0	368.7	396.4	408.3	440.0	519.3	562.9	642.2	693.7	697.7
77.5°	170.5	178.4	186.3	186.3	226.0	285.4	337.0	360.7	416.2	455.9	436.1
80°	67.4	71.4	91.2	122.9	158.6	206.1	241.8	253.7	301.3	325.1	337.0
82.5°	39.6	43.6	59.5	87.2	115.0	146.7	174.4	186.3	218.0	245.8	253.7
85°	19.8	23.8	35.7	55.5	75.3	91.2	87.2	83.2	83.2	79.3	83.2
87.5°	7.9	7.9	11.9	11.9	11.9	15.9	19.8	19.8	19.8	23.8	23.8
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: P531608

CATALOG NUMBER: GALN-SA6D-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3	9272.3
2.5°	9284.2	9125.6	8978.9	8709.4	8416.0	8332.8	7991.8	7868.9	7781.7	7678.7	7646.9
5°	9331.7	9121.6	8649.9	8106.8	7674.7	7119.7	6755.0	6362.5	6077.1	6005.8	5985.9
7.5°	9430.8	9070.1	8257.4	7436.8	6552.8	5799.6	5224.8	4915.6	4642.1	4626.2	4598.5
10°	9541.8	8915.5	7829.3	6540.9	5411.1	4713.4	4368.6	4233.8	4166.4	4150.5	4142.6
12.5°	9633.0	8883.8	7349.6	5668.8	4602.4	4182.2	4079.2	4067.3	4095.0	4103.0	4118.8
15°	9672.7	8756.9	6770.9	4887.9	4099.0	3944.4	3988.0	4035.6	4055.4	4106.9	4067.3
17.5°	9748.0	8594.4	6057.3	4269.4	3817.5	3845.3	3920.6	3976.1	4007.8	4043.5	3992.0
20°	9787.6	8447.7	5387.4	3900.8	3718.4	3770.0	3873.0	3916.6	3956.3	3972.1	3912.7
22.5°	9751.9	8146.4	4796.7	3603.5	3623.3	3690.7	3781.9	3829.4	3805.6	3742.2	3706.5
25°	9656.8	7722.3	4182.2	3413.2	3488.5	3607.4	3678.8	3643.1	3599.5	3563.8	3551.9
27.5°	9652.8	7203.0	3738.2	3238.8	3373.5	3536.1	3512.3	3480.6	3500.4	3472.6	3440.9
30°	9672.7	6699.5	3373.5	3139.6	3290.3	3369.6	3397.3	3365.6	3389.4	3337.9	3353.7
32.5°	9569.6	6207.9	3135.7	3024.7	3191.2	3187.2	3278.4	3302.2	3246.7	3139.6	3155.5
35°	9613.2	5811.5	2933.5	2973.2	3080.2	3080.2	3151.5	3123.8	2977.1	2913.7	2929.5
37.5°	9914.5	5423.0	2834.4	2901.8	2973.2	3004.9	2981.1	2862.2	2826.5	2826.5	2834.4
40°	10199.9	5090.0	2774.9	2885.9	2874.0	2893.9	2719.4	2731.3	2731.3	2735.3	2715.5
42.5°	10453.6	4864.1	2727.4	2790.8	2810.6	2707.6	2600.5	2588.6	2616.4	2612.4	2596.6
45°	10544.8	4677.8	2660.0	2683.8	2699.6	2529.2	2477.6	2453.8	2485.6	2497.4	2513.3
47.5°	10195.9	4523.2	2584.7	2537.1	2505.4	2394.4	2327.0	2283.4	2323.0	2390.4	2406.3
50°	9748.0	4321.0	2465.7	2374.6	2307.2	2259.6	2212.0	2168.4	2196.2	2243.7	2231.8
52.5°	9086.0	4003.8	2315.1	2220.0	2105.0	2116.9	2073.3	2049.5	2065.4	2065.4	2053.5
55°	8142.5	3290.3	2061.4	1994.0	1898.9	1930.6	1938.5	1906.8	1875.1	1902.8	1879.0
57.5°	5557.8	2323.0	1839.4	1839.4	1744.2	1787.9	1783.9	1708.6	1633.3	1641.2	1625.3
60°	3215.0	1851.3	1696.7	1680.8	1581.7	1617.4	1625.3	1573.8	1458.8	1466.8	1450.9
62.5°	1827.5	1581.7	1482.6	1458.8	1439.0	1470.7	1470.7	1403.3	1304.2	1312.2	1296.3
65°	1554.0	1466.8	1324.0	1320.1	1312.2	1320.1	1288.4	1217.0	1129.8	1094.1	1098.1
67.5°	1411.3	1355.8	1217.0	1181.3	1157.5	1153.6	1094.1	1026.7	987.1	955.4	951.4
70°	1236.8	1193.2	1090.2	1042.6	1018.8	963.3	903.8	860.2	804.7	788.9	804.7
72.5°	979.2	975.2	935.6	884.0	832.5	788.9	737.3	677.9	626.3	614.5	586.7
75°	677.9	685.8	693.7	685.8	642.2	586.7	527.2	479.7	416.2	380.6	372.6
77.5°	444.0	455.9	467.8	451.9	424.2	372.6	333.0	273.5	226.0	198.2	194.2
80°	325.1	340.9	348.8	337.0	305.2	265.6	222.0	174.4	138.7	115.0	115.0
82.5°	249.7	265.6	273.5	253.7	222.0	190.3	158.6	122.9	95.1	75.3	71.4
85°	87.2	83.2	99.1	103.1	122.9	115.0	95.1	71.4	55.5	39.6	35.7
87.5°	23.8	23.8	27.7	27.7	23.8	19.8	19.8	19.8	15.9	11.9	11.9
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)