

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: P532090

Luminaire Tested: **GALN-SA7B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27676 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 286
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

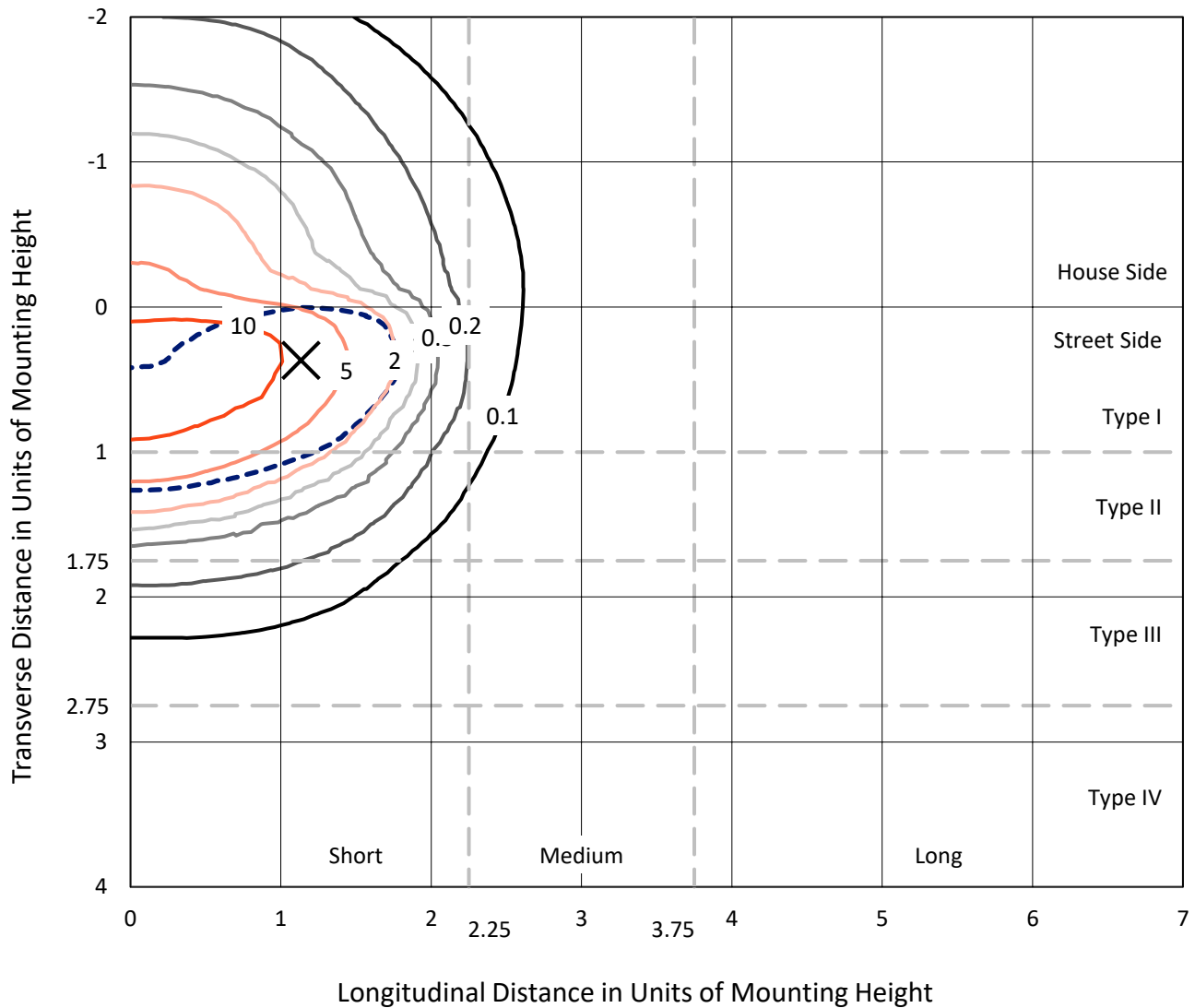


REPORT NUMBER: P532090

CATALOG NUMBER: GALN-SA7B-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

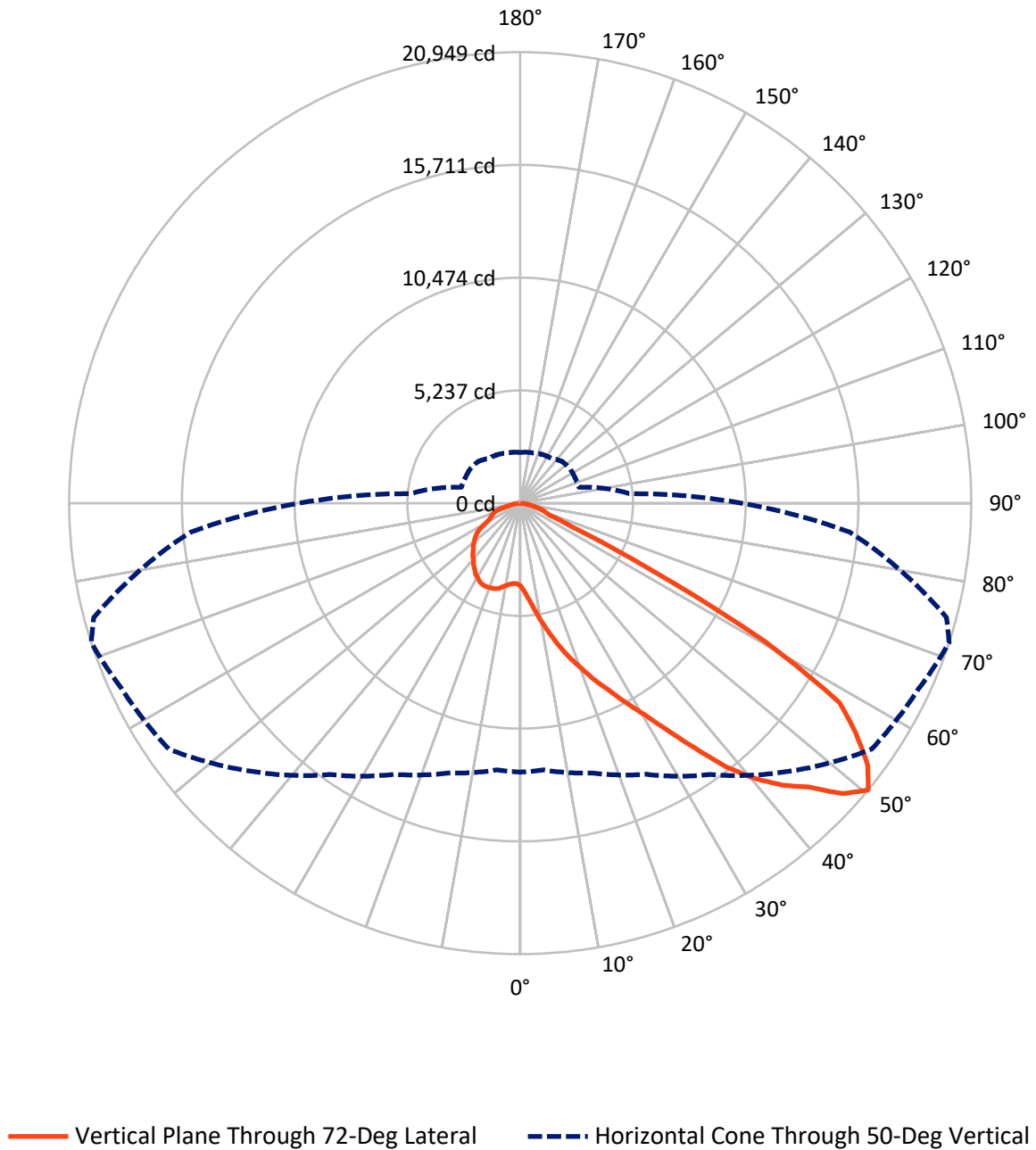
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Short - N/A

REPORT NUMBER: P532090
CATALOG NUMBER: GALN-SA7B-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P532090

CATALOG NUMBER: GALN-SA7B-830-U-T2R-GRSWH

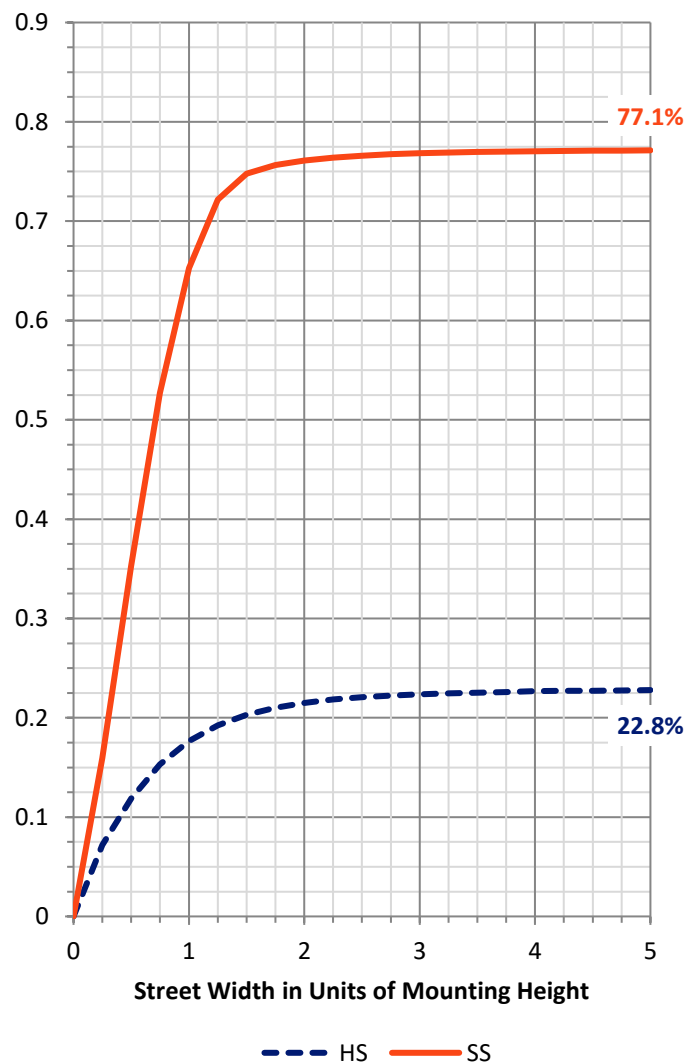
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6340.7	0.0	6340.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21335.3	0.0	21335.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	27676.0	0.0	27676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.2	1.6
10°-20°	1694.1	6.1
20°-30°	3284.8	11.9
30°-40°	5441.8	19.7
40°-50°	7614.3	27.5
50°-60°	6423.6	23.2
60°-70°	1957.9	7.1
70°-80°	686.9	2.5
80°-90°	119.4	0.4
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°	27676.0	100.0
0°-180°	27676.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532090

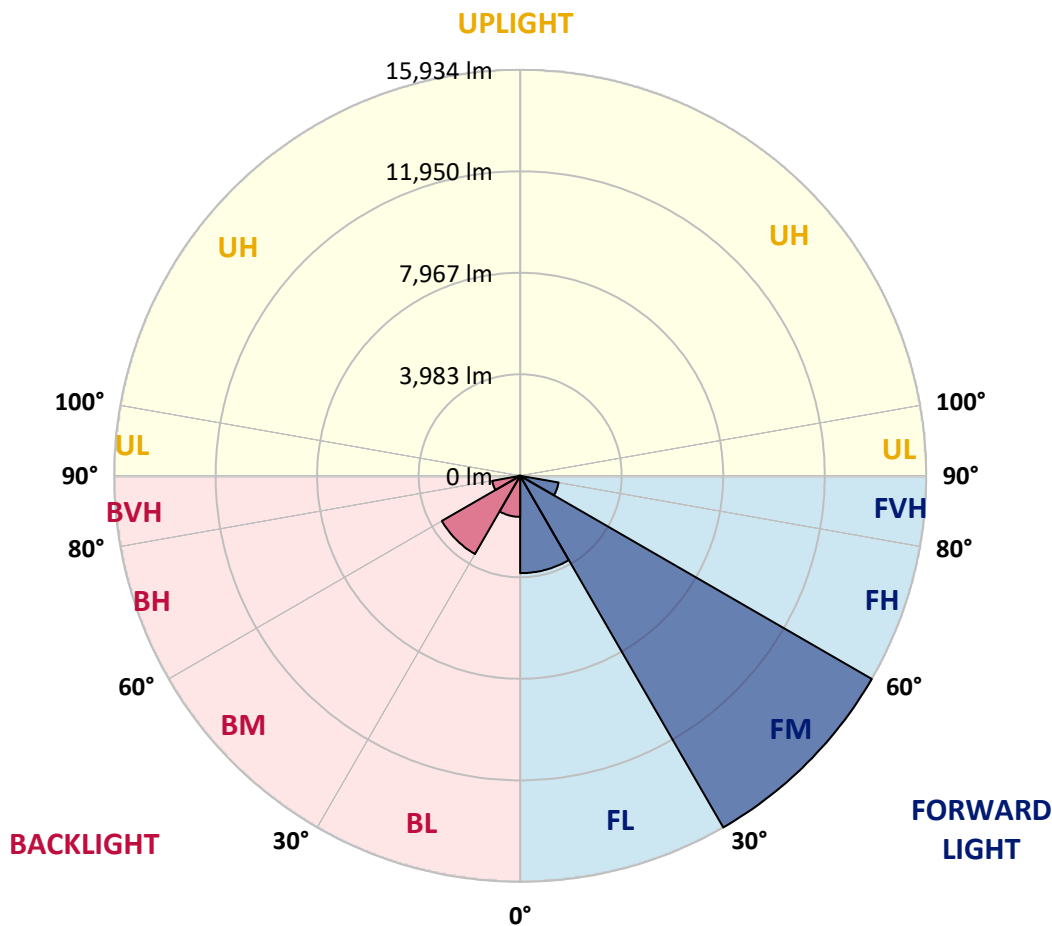
CATALOG NUMBER: GALN-SA7B-830-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3820.3	13.8			
FM	(30°-60°)	15933.8	57.6			
FH	(60°-80°)	1527.7	5.5			G1/1800
FVH	(80°-90°)	53.5	0.2			G1/100
BL	(0°-30°)	1611.8	5.8	B3/2500		
BM	(30°-60°)	3545.8	12.8	B3/5000		
BH	(60°-80°)	1117.1	4.0	B3/2500		G3/2500
BVH	(80°-90°)	65.9	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-G3

Type II Short



REPORT NUMBER: P532090

CATALOG NUMBER: GALN-SA7B-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7
2.5°	4955.5	4924.7	4832.2	4801.4	4691.8	4493.1	4424.7	4222.6	4137.0	4058.2	3965.7
5°	6267.1	6123.3	6113.0	5938.3	5684.9	5537.7	5099.3	4804.8	4534.2	4397.3	4143.8
7.5°	7102.7	7106.2	7106.2	6962.3	6760.3	6387.0	5993.1	5462.3	5054.8	4852.7	4421.2
10°	7897.3	7828.8	7791.1	7777.4	7640.4	7277.4	6856.2	6198.6	5640.4	5404.1	4630.1
12.5°	8458.9	8400.7	8486.3	8441.8	8342.5	8106.2	7708.9	6958.9	6260.3	5941.8	4965.7
15°	8726.0	8767.1	8835.6	8958.9	8914.4	8825.3	8387.0	7739.7	6928.1	6568.5	5263.7
17.5°	9137.0	9024.0	9106.2	9260.3	9383.6	9342.5	9092.5	8304.8	7589.0	7147.3	5664.4
20°	9424.6	9359.6	9400.7	9578.8	9671.2	9904.1	9774.0	9044.5	8222.6	7756.8	6137.0
22.5°	10246.6	10150.7	10017.1	10044.5	10078.8	10243.1	10274.0	9856.2	8958.9	8465.7	6585.6
25°	11260.3	11171.2	11013.7	10852.7	10753.4	10722.6	10828.8	10493.1	9664.4	9154.1	7068.5
27.5°	12376.7	12226.0	12126.7	11794.5	11527.4	11486.3	11434.9	11253.4	10500.0	9948.6	7613.0
30°	13462.3	13342.5	13208.9	12678.1	12400.7	12356.1	12102.7	12154.1	11407.5	10794.5	8229.4
32.5°	14284.2	14294.5	13989.7	13589.0	13328.8	13092.5	13000.0	13147.2	12571.9	12078.8	8917.8
35°	14948.6	14979.4	14688.3	14325.3	14044.5	14208.9	14167.8	14236.3	13962.3	13359.6	9719.2
37.5°	15595.9	15441.8	15130.1	14955.5	14808.2	15078.7	15428.1	15486.3	15537.7	14828.7	10650.7
40°	15702.0	15715.7	15534.2	15657.5	15472.6	15880.1	16691.8	16616.4	16825.3	16205.5	11660.9
42.5°	15551.4	15582.2	15654.1	15828.7	16274.0	16763.7	17969.2	17660.9	17914.4	17363.0	12643.8
45°	15304.8	15178.1	15267.1	15931.5	16702.0	17791.1	19137.0	18897.2	18815.0	18352.7	13815.1
47.5°	14126.7	14256.8	14534.2	15352.7	16510.3	17969.2	19965.7	19910.9	20157.5	19832.2	14880.1
50°	12493.1	12441.8	12976.0	13897.2	15390.4	17619.8	19921.2	20417.8	20948.6	20496.6	15356.1
52.5°	9356.2	9630.1	10089.0	11232.9	13363.0	15715.7	18948.6	19777.4	20208.9	20113.0	14972.6
55°	5914.4	5996.6	6274.0	7633.6	9551.4	12613.0	16243.1	18164.4	18934.9	19294.5	14619.8
57.5°	2873.3	2719.2	3058.2	4150.7	5517.1	8482.9	12527.4	15821.9	17496.6	18147.2	13852.7
60°	1500.0	1558.2	1691.8	2082.2	2852.7	4404.1	7808.2	10544.5	13102.7	14102.7	10500.0
62.5°	1243.1	1263.7	1352.7	1547.9	1897.3	2534.2	3986.3	5140.4	6681.5	7582.2	5972.6
65°	1054.8	1065.1	1161.0	1291.1	1513.7	1784.2	2051.4	2147.3	2599.3	2667.8	2123.3
67.5°	880.1	890.4	993.1	1116.4	1260.3	1332.2	1400.7	1393.8	1445.2	1424.7	1421.2
70°	678.1	688.4	794.5	924.7	996.6	955.5	1167.8	1215.8	1236.3	1253.4	1280.8
72.5°	489.7	510.3	592.5	684.9	647.3	743.1	962.3	1034.2	1061.6	1071.9	1106.2
75°	356.2	363.0	383.6	356.2	411.0	517.1	678.1	767.1	801.4	811.6	863.0
77.5°	157.5	161.0	164.4	205.5	263.7	321.9	404.1	476.0	524.0	537.7	551.4
80°	82.2	85.6	106.2	140.4	188.4	236.3	294.5	335.6	366.4	369.9	383.6
82.5°	51.4	54.8	75.3	99.3	133.6	174.7	215.8	250.0	274.0	277.4	280.8
85°	24.0	30.8	44.5	61.6	89.0	113.0	116.4	99.3	106.2	109.6	102.7
87.5°	6.8	10.3	13.7	10.3	13.7	13.7	17.1	20.5	20.5	20.5	24.0
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: P532090

CATALOG NUMBER: GALN-SA7B-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7
2.5°	3914.4	3883.6	3763.7	3719.2	3602.7	3623.3	3561.6	3558.2	3544.5	3541.1	3537.7
5°	4010.3	3914.4	3770.5	3661.0	3595.9	3589.0	3544.5	3544.5	3558.2	3568.5	3544.5
7.5°	4167.8	4058.2	3815.1	3712.3	3654.1	3643.8	3613.0	3589.0	3619.9	3609.6	3582.2
10°	4349.3	4157.5	3900.7	3811.6	3715.7	3691.8	3691.8	3702.1	3650.7	3667.8	3640.4
12.5°	4551.4	4294.5	4010.3	3907.5	3794.5	3780.8	3774.0	3698.6	3726.0	3712.3	3643.8
15°	4808.2	4452.0	4150.7	3976.0	3880.1	3818.5	3729.4	3715.7	3698.6	3664.4	3633.6
17.5°	5085.6	4623.3	4215.7	3996.6	3852.7	3808.2	3739.7	3667.8	3616.4	3623.3	3599.3
20°	5321.9	4780.8	4239.7	4017.1	3832.2	3746.6	3640.4	3595.9	3541.1	3537.7	3534.2
22.5°	5602.7	4993.1	4274.0	3962.3	3770.5	3681.5	3609.6	3530.8	3493.1	3445.2	3469.2
25°	5938.3	5075.3	4280.8	3931.5	3726.0	3568.5	3530.8	3445.2	3431.5	3363.0	3376.7
27.5°	6181.5	5119.9	4226.0	3835.6	3623.3	3503.4	3434.9	3373.3	3349.3	3297.9	3284.2
30°	6506.8	5188.4	4109.6	3715.7	3520.5	3387.0	3345.9	3332.2	3263.7	3208.9	3202.1
32.5°	6876.7	5232.9	4034.2	3592.5	3414.4	3311.6	3332.2	3267.1	3181.5	3133.6	3119.9
35°	7171.2	5250.0	3845.9	3452.1	3342.5	3277.4	3253.4	3239.7	3116.4	3071.9	3037.7
37.5°	7619.9	5212.3	3688.4	3352.7	3263.7	3239.7	3219.2	3126.7	2986.3	2921.2	2873.3
40°	8143.8	5202.0	3486.3	3212.3	3188.4	3215.7	3154.1	3010.3	2815.1	2743.1	2708.9
42.5°	8647.3	5274.0	3359.6	3137.0	3106.2	3116.4	3030.8	2815.1	2719.2	2678.1	2623.3
45°	9489.7	5424.7	3150.7	3020.5	3006.8	3000.0	2897.3	2671.2	2616.4	2565.1	2554.8
47.5°	10250.0	5325.3	3017.1	2900.7	2914.4	2876.7	2657.5	2585.6	2524.0	2472.6	2455.5
50°	10294.5	5089.0	2828.8	2808.2	2811.6	2746.6	2537.7	2489.7	2411.0	2376.7	2352.7
52.5°	10061.6	4702.0	2654.1	2661.0	2671.2	2565.1	2390.4	2356.2	2291.1	2243.1	2229.4
55°	9407.5	4099.3	2482.9	2510.3	2537.7	2335.6	2280.8	2195.2	2143.8	2075.3	2078.8
57.5°	8287.7	3301.4	2243.1	2287.7	2345.9	2123.3	2082.2	1976.0	1900.7	1845.9	1839.0
60°	5554.8	2349.3	1883.6	1900.7	2030.8	1941.8	1938.4	1832.2	1729.5	1681.5	1654.1
62.5°	3277.4	1794.5	1626.7	1609.6	1606.2	1657.5	1743.1	1705.5	1571.9	1479.5	1506.8
65°	1715.8	1551.4	1513.7	1455.5	1421.2	1407.5	1472.6	1489.7	1400.7	1301.4	1294.5
67.5°	1441.8	1441.8	1411.0	1390.4	1342.5	1284.2	1243.1	1188.4	1174.7	1147.3	1113.0
70°	1311.6	1345.9	1335.6	1287.7	1246.6	1181.5	1075.3	986.3	900.7	869.9	890.4
72.5°	1143.8	1178.1	1178.1	1154.1	1099.3	1000.0	897.3	794.5	722.6	667.8	661.0
75°	880.1	897.3	938.4	911.0	839.0	777.4	671.2	565.1	496.6	445.2	434.9
77.5°	561.6	589.0	589.0	585.6	534.2	476.0	407.5	332.2	280.8	243.2	232.9
80°	373.3	390.4	404.1	390.4	356.2	311.6	260.3	208.9	171.2	140.4	133.6
82.5°	274.0	294.5	304.8	291.1	256.8	222.6	184.9	147.3	109.6	85.6	78.8
85°	106.2	109.6	123.3	147.3	143.8	140.4	113.0	82.2	61.6	44.5	41.1
87.5°	27.4	24.0	27.4	27.4	24.0	20.5	20.5	20.5	20.5	10.3	13.7
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)