

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: P533246

Luminaire Tested: **GALN-SA8C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533246
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-SA8C-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 40707 lumens
Efficiency: N/A
Efficacy: 94.9 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): 429
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

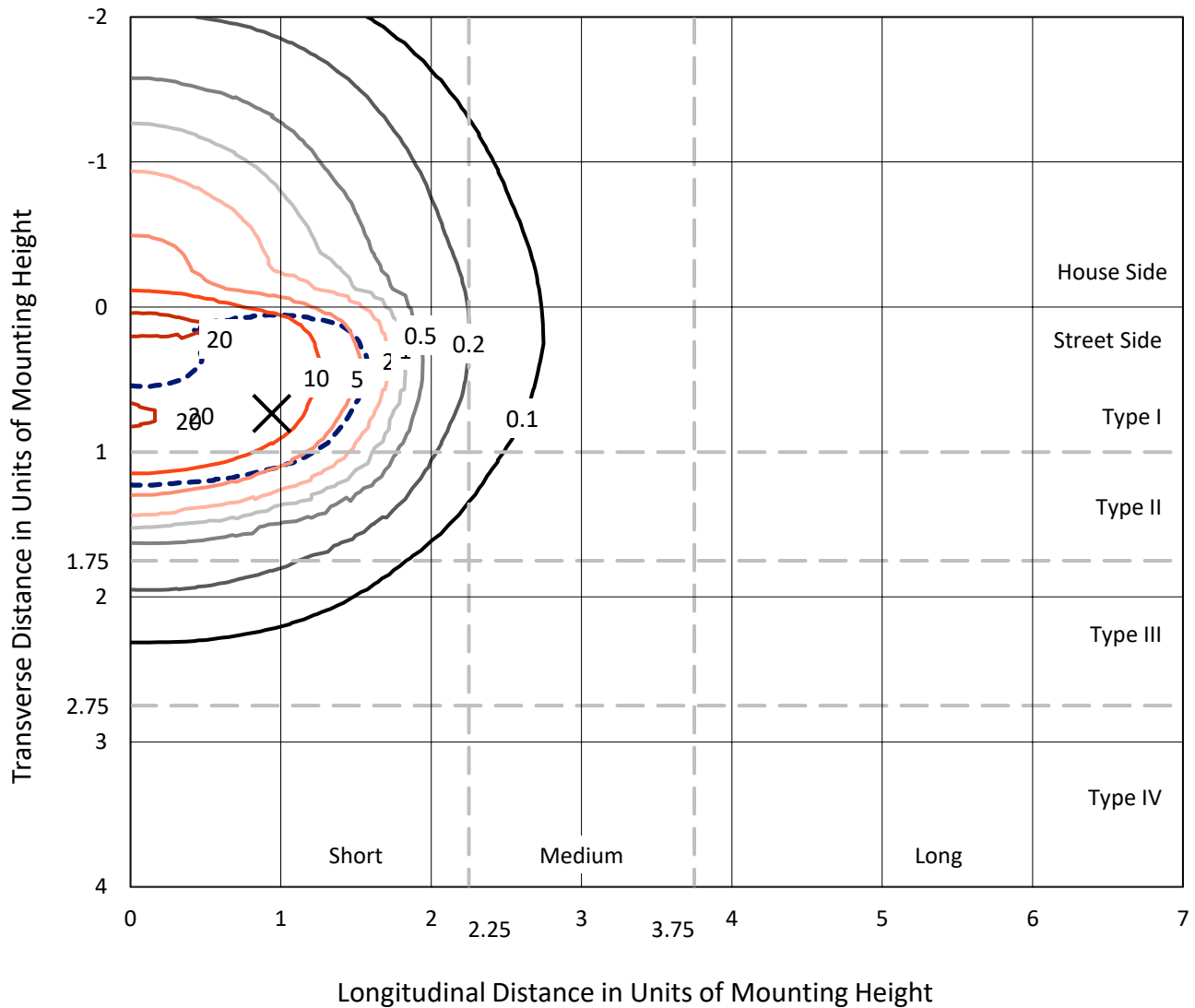


REPORT NUMBER: P533246

CATALOG NUMBER: GALN-SA8C-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

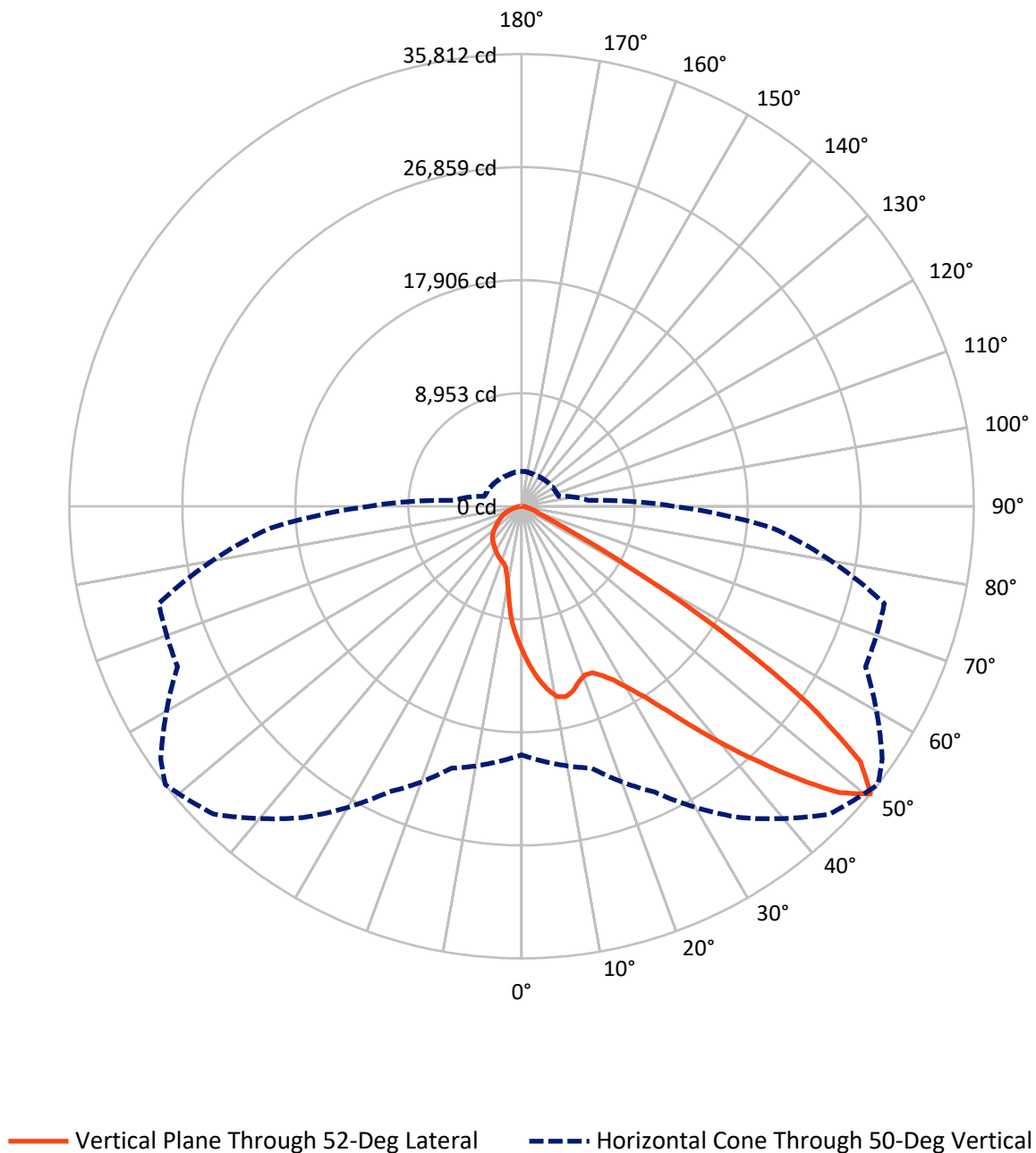


Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

REPORT NUMBER: P533246

CATALOG NUMBER: GALN-SA8C-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533246

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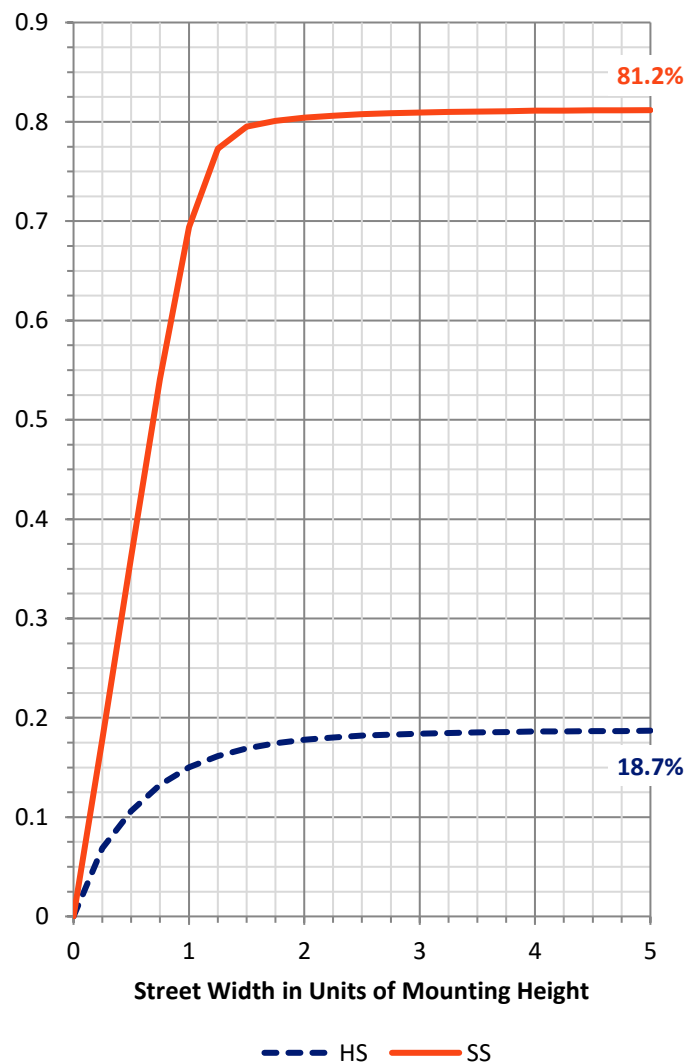
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7652.0	0.0	7652.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33055.1	0.0	33055.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	40707.0	0.0	40707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1057.6	2.6
10°-20°	2834.7	7.0
20°-30°	4774.9	11.7
30°-40°	8012.7	19.7
40°-50°	12257.4	30.1
50°-60°	8936.6	22.0
60°-70°	1988.8	4.9
70°-80°	717.4	1.8
80°-90°	127.0	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°	40707.0	100.0
0°-180°	40707.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533246

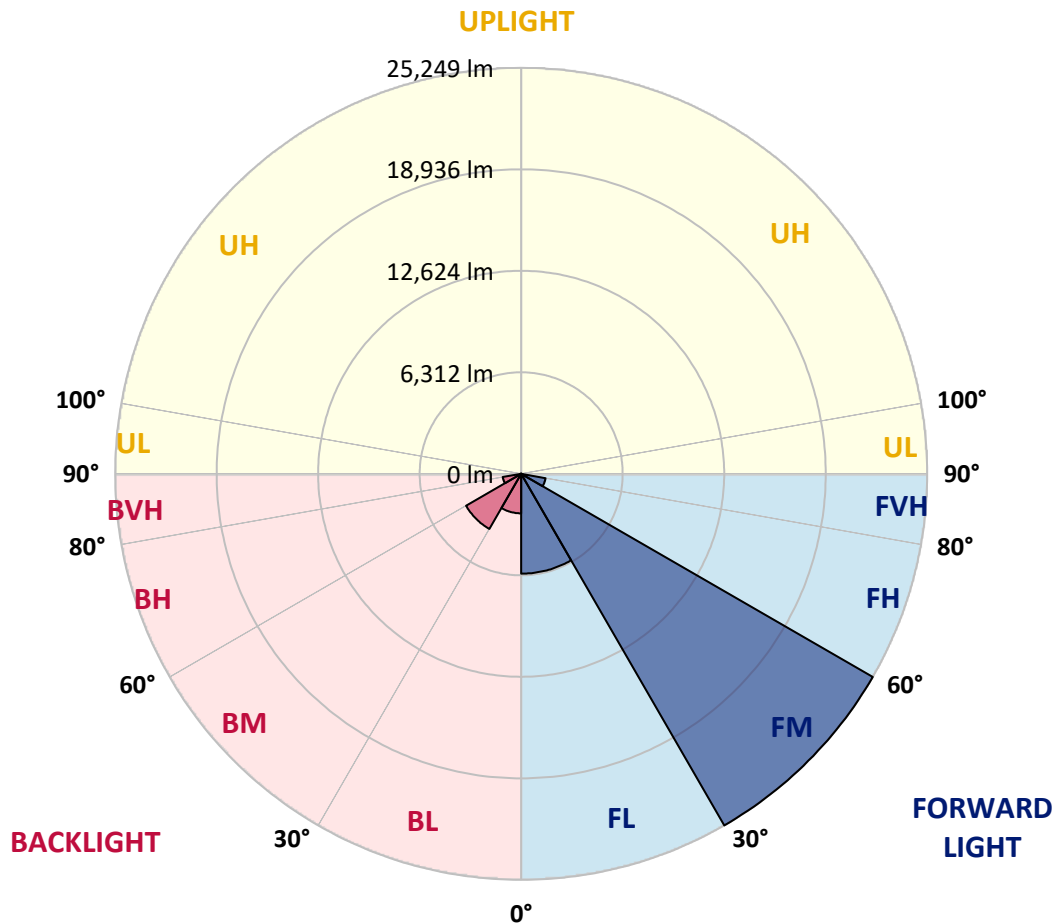
CATALOG NUMBER: GALN-SA8C-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6209.2	15.3			
FM	(30°-60°)	25248.6	62.0			
FH	(60°-80°)	1540.4	3.8			G1/1800
FVH	(80°-90°)	56.9	0.1			G1/100
BL	(0°-30°)	2458.0	6.0	B3/2500		
BM	(30°-60°)	3958.1	9.7	B3/5000		
BH	(60°-80°)	1165.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	70.1	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: P533246

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6
2.5°	13510.5	13250.5	13280.0	13093.5	12892.4	12833.5	12627.5	12431.3	12284.1	11970.1	11680.7
5°	14766.4	14687.9	14570.2	14423.0	14270.9	13898.1	13687.1	13441.8	12902.2	12416.5	11935.8
7.5°	14947.9	14933.2	14997.0	14997.0	15050.9	14908.7	14609.4	14437.7	13863.7	13073.9	12181.1
10°	13672.4	13716.6	14025.6	14427.9	14987.2	15374.7	15325.7	15281.5	14653.6	13574.3	12470.5
12.5°	12656.9	12558.8	12740.3	13083.7	13922.6	14859.6	15492.5	15497.4	15335.5	14373.9	12681.5
15°	12082.9	12151.6	12200.7	12362.6	12995.4	14079.6	15193.2	15521.9	16233.2	14938.1	13015.0
17.5°	12450.9	12220.3	12210.5	12249.7	12573.5	13387.9	14638.9	15203.0	16723.8	15664.2	13427.1
20°	12931.6	12926.7	12789.4	12740.3	12735.4	13461.5	14275.8	15041.1	16983.8	16606.1	13844.1
22.5°	13775.4	13775.4	13549.8	13441.8	13211.3	13804.9	14324.9	14844.9	17415.5	17253.6	14045.3
25°	15188.3	14957.7	14570.2	14305.3	14172.8	14383.8	14844.9	15311.0	17793.3	17940.5	14462.3
27.5°	16493.2	16130.2	15938.9	15482.7	15306.0	15183.4	15605.3	16076.3	18234.8	19009.9	14687.9
30°	17974.8	17911.0	17567.6	16978.9	16542.3	16316.6	16704.2	17170.2	19044.3	20103.9	15207.9
32.5°	20623.9	20045.0	19579.0	18857.8	18146.5	17665.7	18048.4	18357.4	20388.4	21246.9	15777.0
35°	23484.0	23297.6	22493.0	21193.0	20103.9	19672.2	19897.9	20128.4	21953.4	22993.4	16733.6
37.5°	26295.0	26039.9	25377.6	24283.6	22959.1	22080.9	22242.8	22512.6	23709.7	25348.2	17901.2
40°	28316.2	28002.2	27668.6	27506.7	26192.0	24990.1	24896.9	24965.5	26084.1	27555.8	19196.3
42.5°	28463.4	28850.9	28953.9	29606.4	29297.3	28311.3	27737.3	27752.0	28350.5	29738.9	20506.2
45°	28154.3	27796.2	28556.6	30337.4	31357.8	31818.9	30852.5	30729.8	29753.6	31004.6	21158.6
47.5°	24911.6	25009.7	26295.0	29110.9	32059.3	34119.7	33894.1	33486.9	30504.2	30960.4	21055.6
50°	19691.8	20285.4	21477.5	24985.2	30097.0	34482.8	35812.2	34870.3	30057.7	29743.8	20005.8
52.5°	13113.2	13358.4	14143.4	18671.4	24200.2	30823.0	33604.6	33820.5	29645.7	28149.4	18676.3
55°	5837.9	5818.3	6922.1	9752.7	15183.4	23454.6	27457.7	28772.4	28061.1	26525.6	17381.2
57.5°	2472.5	2555.9	3007.2	4214.1	7466.6	14153.2	18602.7	19755.6	21580.5	21781.7	13333.9
60°	1672.9	1682.7	1805.3	2109.5	3125.0	6647.3	9757.6	11141.0	12446.0	12357.7	7074.1
62.5°	1314.8	1349.1	1442.3	1564.9	1854.4	3017.1	4366.1	5136.4	5219.8	4390.7	2683.5
65°	1123.4	1128.3	1221.5	1324.6	1452.1	1756.3	2104.6	2143.8	2168.4	2089.9	1972.1
67.5°	927.2	937.0	1010.6	1128.3	1246.1	1344.2	1442.3	1491.4	1604.2	1825.0	1795.5
70°	735.9	750.6	814.4	912.5	1020.4	1079.3	1201.9	1246.1	1349.1	1520.8	1589.5
72.5°	559.3	564.2	618.1	686.8	784.9	843.8	946.8	995.9	1064.6	1211.7	1275.5
75°	402.3	417.0	456.2	490.6	505.3	544.5	642.7	696.6	794.7	858.5	863.4
77.5°	210.9	220.8	230.6	230.6	279.6	353.2	417.0	446.4	515.1	564.2	539.6
80°	83.4	88.3	112.8	152.1	196.2	255.1	299.3	314.0	372.8	402.3	417.0
82.5°	49.1	54.0	73.6	107.9	142.3	181.5	215.9	230.6	269.8	304.2	314.0
85°	24.5	29.4	44.2	68.7	93.2	112.8	107.9	103.0	103.0	98.1	103.0
87.5°	9.8	9.8	14.7	14.7	14.7	19.6	24.5	24.5	24.5	29.4	29.4
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: P533246

CATALOG NUMBER: GALN-SA8C-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6	11474.6
2.5°	11489.3	11293.1	11111.6	10778.0	10415.0	10312.0	9890.1	9738.0	9630.1	9502.5	9463.3
5°	11548.2	11288.2	10704.4	10032.3	9497.6	8810.8	8359.5	7873.8	7520.6	7432.3	7407.7
7.5°	11670.9	11224.4	10218.7	9203.3	8109.3	7177.2	6465.8	6083.2	5744.7	5725.0	5690.7
10°	11808.2	11033.1	9688.9	8094.5	6696.4	5833.0	5406.2	5239.4	5156.0	5136.4	5126.5
12.5°	11921.1	10993.9	9095.3	7015.3	5695.6	5175.6	5048.1	5033.3	5067.7	5077.5	5097.1
15°	11970.1	10836.9	8379.1	6048.8	5072.6	4881.3	4935.2	4994.1	5018.6	5082.4	5033.3
17.5°	12063.3	10635.7	7496.0	5283.5	4724.3	4758.6	4851.8	4920.5	4959.7	5003.9	4940.1
20°	12112.4	10454.2	6667.0	4827.3	4601.6	4665.4	4793.0	4846.9	4896.0	4915.6	4842.0
22.5°	12068.2	10081.4	5936.0	4459.4	4483.9	4567.3	4680.1	4739.0	4709.6	4631.1	4586.9
25°	11950.5	9556.5	5175.6	4223.9	4317.1	4464.3	4552.6	4508.4	4454.5	4410.3	4395.6
27.5°	11945.6	8913.8	4626.2	4008.0	4174.8	4376.0	4346.5	4307.3	4331.8	4297.5	4258.2
30°	11970.1	8290.8	4174.8	3885.4	4071.8	4169.9	4204.3	4165.0	4194.4	4130.7	4150.3
32.5°	11842.6	7682.5	3880.5	3743.1	3949.2	3944.3	4057.1	4086.5	4017.8	3885.4	3905.0
35°	11896.5	7191.9	3630.3	3679.3	3811.8	3811.8	3900.1	3865.8	3684.2	3605.8	3625.4
37.5°	12269.4	6711.1	3507.6	3591.0	3679.3	3718.6	3689.1	3542.0	3497.8	3497.8	3507.6
40°	12622.6	6299.0	3434.0	3571.4	3556.7	3581.2	3365.4	3380.1	3380.1	3385.0	3360.5
42.5°	12936.6	6019.4	3375.2	3453.7	3478.2	3350.7	3218.2	3203.5	3237.8	3232.9	3213.3
45°	13049.4	5788.8	3291.8	3321.2	3340.8	3129.9	3066.1	3036.7	3075.9	3090.6	3110.3
47.5°	12617.7	5597.5	3198.6	3139.7	3100.5	2963.1	2879.7	2825.7	2874.8	2958.2	2977.8
50°	12063.3	5347.3	3051.4	2938.6	2855.2	2796.3	2737.4	2683.5	2717.8	2776.7	2762.0
52.5°	11244.1	4954.8	2865.0	2747.2	2605.0	2619.7	2565.7	2536.3	2555.9	2555.9	2541.2
55°	10076.5	4071.8	2551.0	2467.6	2349.9	2389.1	2398.9	2359.7	2320.4	2354.8	2325.3
57.5°	6877.9	2874.8	2276.3	2276.3	2158.5	2212.5	2207.6	2114.4	2021.2	2031.0	2011.4
60°	3978.6	2291.0	2099.7	2080.1	1957.4	2001.6	2011.4	1947.6	1805.3	1815.1	1795.5
62.5°	2261.6	1957.4	1834.8	1805.3	1780.8	1820.0	1820.0	1736.6	1614.0	1623.8	1604.2
65°	1923.1	1815.1	1638.5	1633.6	1623.8	1633.6	1594.4	1506.1	1398.1	1354.0	1358.9
67.5°	1746.5	1677.8	1506.1	1461.9	1432.5	1427.6	1354.0	1270.6	1221.5	1182.3	1177.4
70°	1530.6	1476.6	1349.1	1290.2	1260.8	1192.1	1118.5	1064.6	995.9	976.3	995.9
72.5°	1211.7	1206.8	1157.8	1094.0	1030.2	976.3	912.5	838.9	775.1	760.4	726.1
75°	838.9	848.7	858.5	848.7	794.7	726.1	652.5	593.6	515.1	471.0	461.1
77.5°	549.4	564.2	578.9	559.3	524.9	461.1	412.1	338.5	279.6	245.3	240.4
80°	402.3	421.9	431.7	417.0	377.7	328.7	274.7	215.9	171.7	142.3	142.3
82.5°	309.1	328.7	338.5	314.0	274.7	235.5	196.2	152.1	117.7	93.2	88.3
85°	107.9	103.0	122.6	127.6	152.1	142.3	117.7	88.3	68.7	49.1	44.2
87.5°	29.4	29.4	34.3	34.3	29.4	24.5	24.5	24.5	19.6	14.7	14.7
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)