

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: P652077

Luminaire Tested: **GALN-SA8A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652077  
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-SA8A-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA 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: 27290.4 lumens  
Efficiency: N/A  
Efficacy: 111.8 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

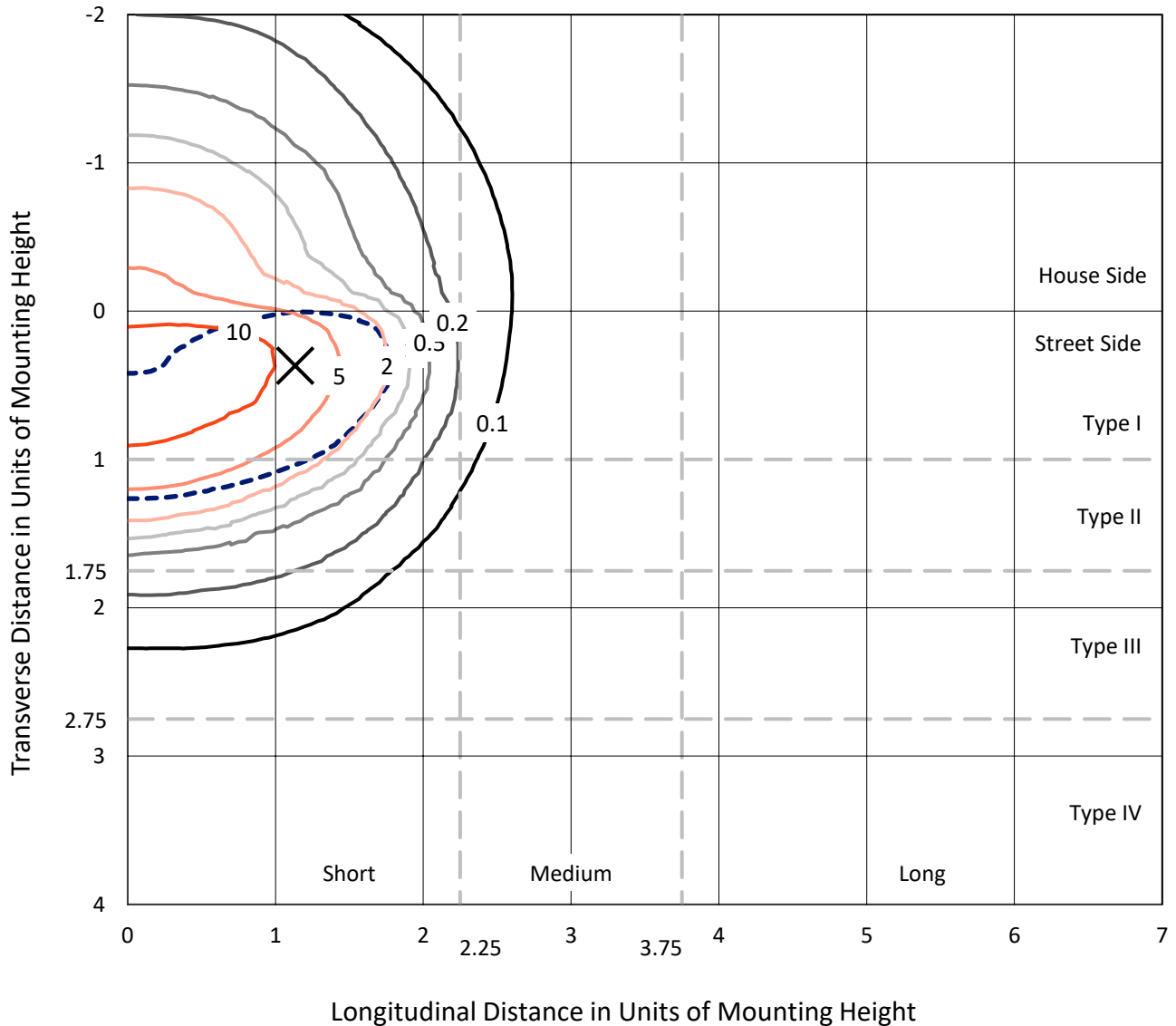
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652077  
 CATALOG NUMBER: GALN-SA8A-840-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

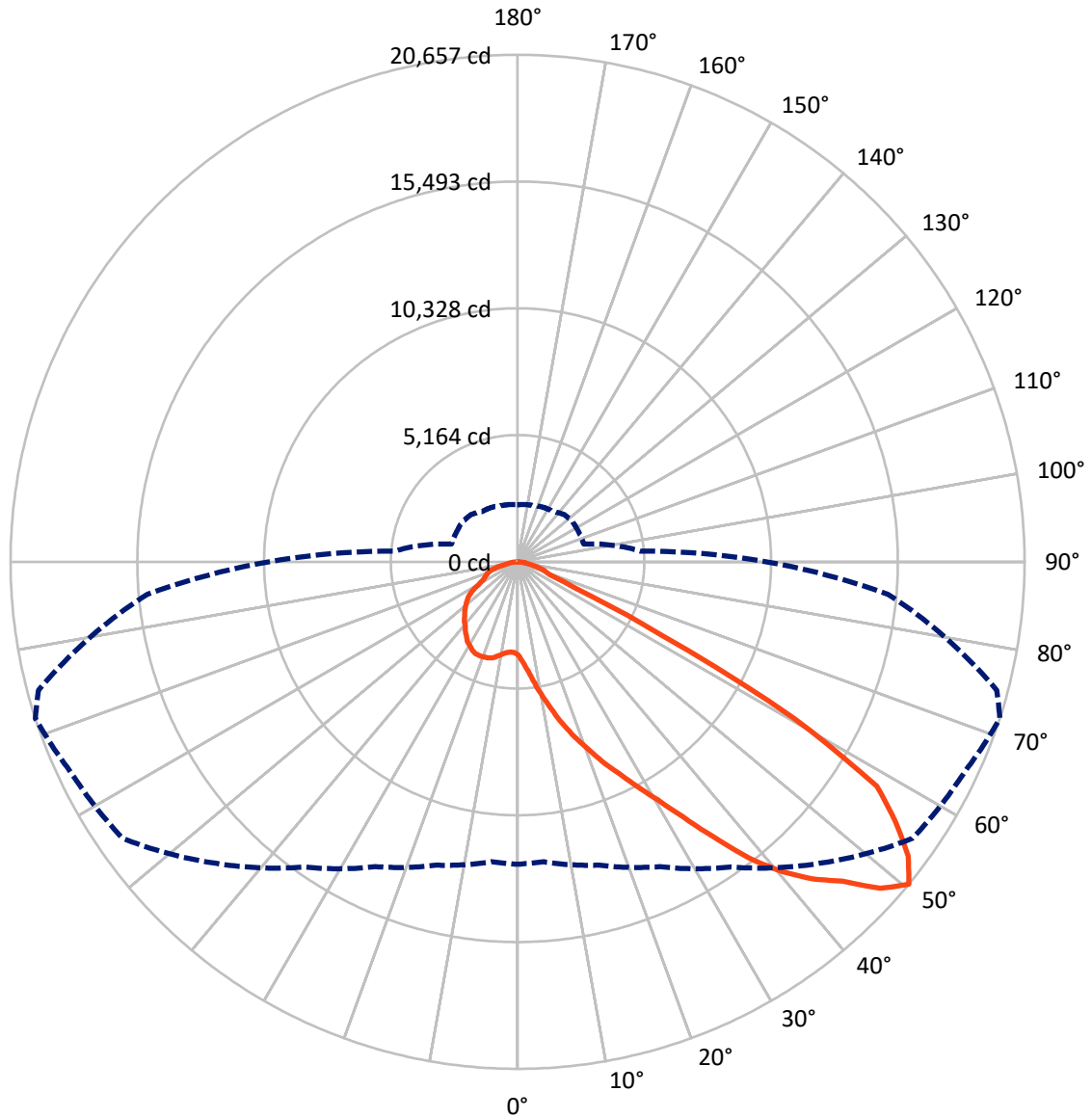
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P652077  
CATALOG NUMBER: GALN-SA8A-840-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P652077  
 CATALOG NUMBER: GALN-SA8A-840-U-T2R-GRSWH

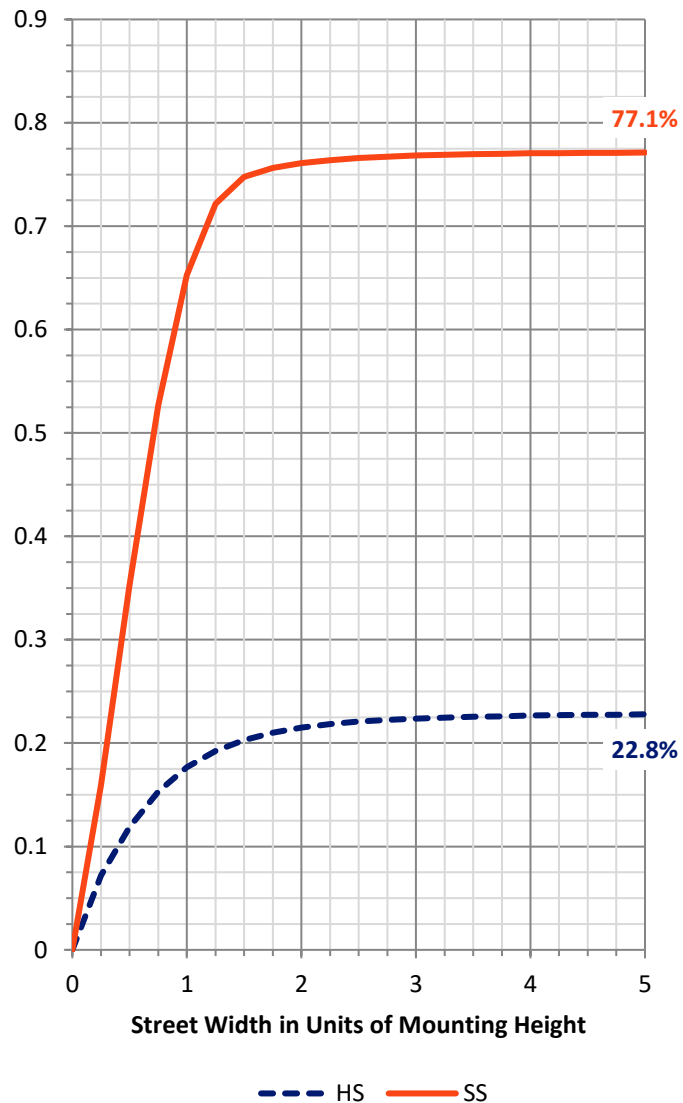
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6252.4	0.0	6252.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	21038.0	0.0	21038.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	27290.4	0.0	27290.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.9	1.6
10°-20°	1670.5	6.1
20°-30°	3239.1	11.9
30°-40°	5366.0	19.7
40°-50°	7508.2	27.5
50°-60°	6334.1	23.2
60°-70°	1930.6	7.1
70°-80°	677.3	2.5
80°-90°	117.8	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°	27290.4	100.0
0°-180°	27290.4	100.0

**Coefficient of Utilization**



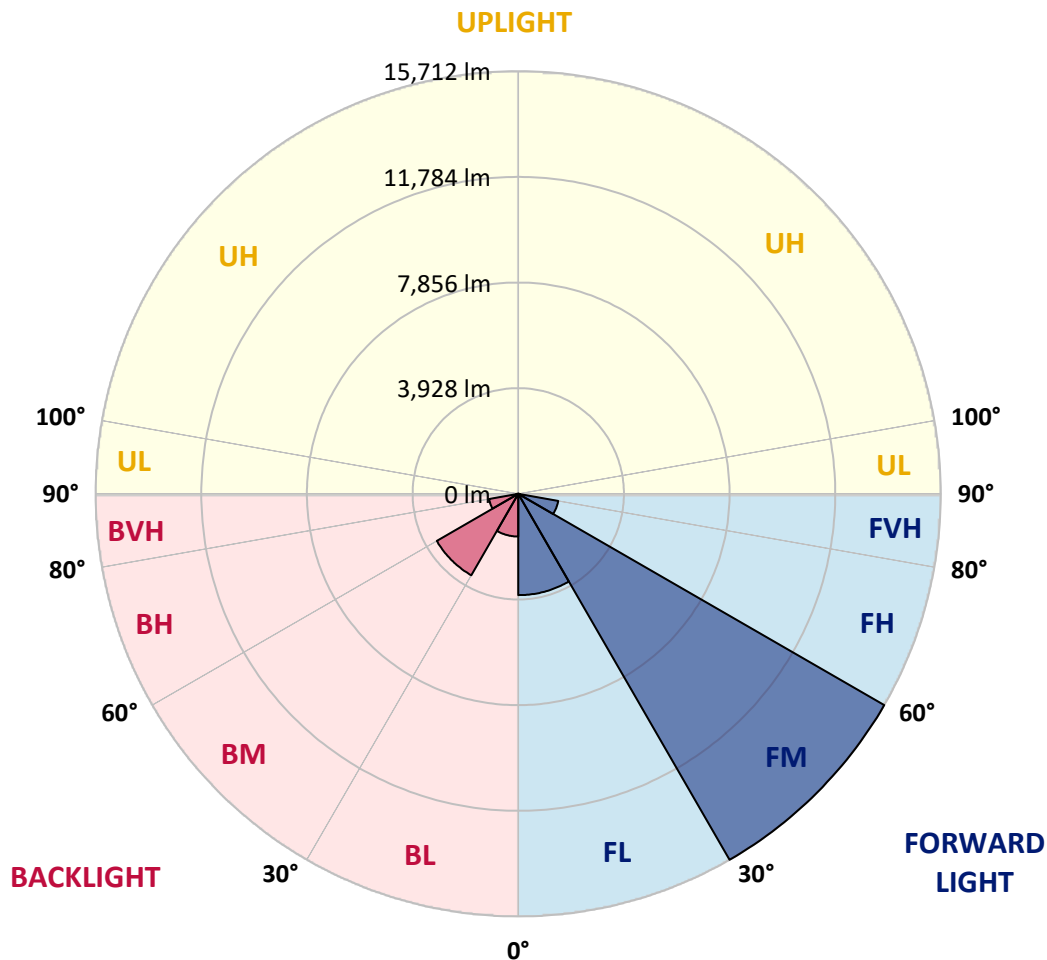
REPORT NUMBER: P652077  
 CATALOG NUMBER: GALN-SA8A-840-U-T2R-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3767.1	13.8			
FM (30°-60°)	15711.9	57.6			
FH (60°-80°)	1506.4	5.5			G1/1800
FVH (80°-90°)	52.7	0.2			G1/100
BL (0°-30°)	1589.4	5.8	B3/2500		
BM (30°-60°)	3496.4	12.8	B3/5000		
BH (60°-80°)	1101.6	4.0	B3/2500		G3/2500
BVH (80°-90°)	65.0	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: P652077

CATALOG NUMBER: GALN-SA8A-840-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0
2.5°	4886.5	4856.0	4764.9	4734.5	4626.4	4430.6	4363.0	4163.8	4079.4	4001.6	3910.5
5°	6179.8	6038.0	6027.9	5855.6	5605.8	5460.5	5028.3	4737.9	4471.1	4336.0	4086.1
7.5°	7003.8	7007.1	7007.1	6865.3	6666.1	6298.0	5909.6	5386.3	4984.4	4785.1	4359.7
10°	7787.2	7719.7	7682.5	7669.1	7533.9	7176.0	6760.6	6112.3	5561.9	5328.8	4565.6
12.5°	8341.0	8283.7	8368.0	8324.1	8226.2	7993.2	7601.5	6862.0	6173.0	5859.0	4896.6
15°	8604.4	8645.0	8712.5	8834.1	8790.2	8702.4	8270.1	7631.9	6831.5	6477.0	5190.4
17.5°	9009.7	8898.3	8979.3	9131.2	9252.9	9212.3	8965.8	8189.1	7483.3	7047.7	5585.5
20°	9293.4	9229.2	9269.8	9445.4	9536.5	9766.1	9637.8	8918.6	8108.1	7648.8	6051.5
22.5°	10103.9	10009.2	9877.5	9904.5	9938.3	10100.4	10130.9	9718.8	8834.1	8347.9	6493.9
25°	11103.4	11015.6	10860.3	10701.6	10603.6	10573.2	10677.9	10347.0	9529.7	9026.5	6970.0
27.5°	12204.3	12055.7	11957.8	11630.2	11366.8	11326.3	11275.6	11096.7	10353.7	9810.0	7506.9
30°	13274.8	13156.6	13024.9	12501.5	12227.9	12184.0	11934.1	11984.8	11248.6	10644.1	8114.8
32.5°	14085.2	14095.3	13794.8	13399.7	13143.1	12910.0	12818.9	12964.1	12396.8	11910.5	8793.6
35°	14740.4	14770.7	14483.7	14125.8	13848.8	14011.0	13970.4	14038.0	13767.8	13173.4	9583.8
37.5°	15378.6	15226.6	14919.3	14747.1	14601.9	14868.7	15213.1	15270.5	15321.2	14622.2	10502.3
40°	15483.3	15496.8	15317.8	15439.4	15257.0	15658.9	16459.2	16385.0	16590.9	15979.7	11498.5
42.5°	15334.7	15365.1	15436.1	15608.2	16047.2	16530.1	17718.9	17414.9	17664.8	17121.1	12467.7
45°	15091.6	14966.6	15054.4	15709.5	16469.4	17543.3	18870.4	18634.0	18553.0	18097.1	13622.6
47.5°	13929.9	14058.2	14331.7	15138.8	16280.2	17718.9	19687.6	19633.6	19876.7	19555.9	14672.8
50°	12319.1	12268.4	12795.2	13703.7	15176.0	17374.4	19643.7	20133.4	20656.8	20211.0	15142.2
52.5°	9225.9	9496.0	9948.4	11076.4	13176.9	15496.8	18684.7	19501.9	19927.3	19832.8	14764.0
55°	5832.0	5913.1	6186.6	7527.2	9418.3	12437.3	16016.8	17911.3	18671.1	19025.7	14416.2
57.5°	2833.2	2681.3	3015.6	4092.9	5440.3	8364.7	12352.9	15601.5	17252.8	17894.5	13659.8
60°	1479.1	1536.5	1668.2	2053.2	2813.0	4342.8	7699.4	10397.6	12920.2	13906.3	10353.7
62.5°	1225.8	1246.1	1333.9	1526.4	1870.8	2498.9	3930.7	5068.8	6588.4	7476.6	5889.4
65°	1040.1	1050.2	1144.8	1273.1	1492.6	1759.4	2022.8	2117.4	2563.1	2630.6	2093.7
67.5°	867.9	878.0	979.3	1100.9	1242.7	1313.6	1381.2	1374.4	1425.1	1404.8	1401.4
70°	668.6	678.8	783.5	911.8	982.7	942.2	1151.5	1198.8	1219.1	1235.9	1263.0
72.5°	482.9	503.2	584.2	675.4	638.2	732.8	948.9	1019.8	1046.9	1057.0	1090.8
75°	351.2	357.9	378.2	351.2	405.2	509.9	668.6	756.4	790.2	800.3	851.0
77.5°	155.3	158.7	162.1	202.6	260.0	317.4	398.5	469.4	516.7	530.2	543.7
80°	81.1	84.4	104.7	138.4	185.7	233.0	290.4	330.9	361.3	364.7	378.2
82.5°	50.6	54.0	74.3	97.9	131.7	172.2	212.8	246.5	270.1	273.5	276.9
85°	23.6	30.4	43.9	60.8	87.8	111.4	114.8	97.9	104.7	108.1	101.3
87.5°	6.7	10.1	13.5	10.1	13.5	13.5	16.9	20.3	20.3	20.3	23.6
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: P652077

CATALOG NUMBER: GALN-SA8A-840-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0	3799.0
2.5°	3859.9	3829.5	3711.2	3667.3	3552.6	3572.8	3512.0	3508.7	3495.1	3491.7	3488.4
5°	3954.4	3859.9	3718.0	3610.0	3545.8	3539.0	3495.1	3495.1	3508.7	3518.7	3495.1
7.5°	4109.7	4001.6	3761.9	3660.6	3603.2	3593.1	3562.6	3539.0	3569.5	3559.3	3532.3
10°	4288.7	4099.6	3846.3	3758.5	3664.0	3640.4	3640.4	3650.4	3599.8	3616.7	3589.7
12.5°	4488.0	4234.7	3954.4	3853.1	3741.7	3728.2	3721.4	3647.1	3674.1	3660.6	3593.1
15°	4741.2	4390.0	4092.9	3920.7	3826.0	3765.3	3677.5	3664.0	3647.1	3613.4	3582.9
17.5°	5014.8	4558.9	4157.0	3940.9	3799.0	3755.1	3687.6	3616.7	3566.1	3572.8	3549.2
20°	5247.8	4714.2	4180.7	3961.2	3778.8	3694.3	3589.7	3545.8	3491.7	3488.4	3485.0
22.5°	5524.7	4923.6	4214.4	3907.1	3718.0	3630.2	3559.3	3481.7	3444.5	3397.2	3420.9
25°	5855.6	5004.6	4221.1	3876.8	3674.1	3518.7	3481.7	3397.2	3383.7	3316.1	3329.7
27.5°	6095.4	5048.5	4167.2	3782.1	3572.8	3454.6	3387.0	3326.3	3302.7	3252.0	3238.5
30°	6416.2	5116.1	4052.4	3664.0	3471.5	3339.8	3299.2	3285.8	3218.3	3164.2	3157.5
32.5°	6780.9	5160.0	3978.0	3542.4	3366.8	3265.5	3285.8	3221.6	3137.2	3089.9	3076.4
35°	7071.3	5176.9	3792.3	3403.9	3295.9	3231.7	3208.1	3194.6	3073.0	3029.1	2995.4
37.5°	7513.7	5139.7	3637.0	3306.1	3218.3	3194.6	3174.4	3083.2	2944.7	2880.5	2833.2
40°	8030.4	5129.6	3437.8	3167.5	3143.9	3171.0	3110.2	2968.3	2775.9	2704.9	2671.2
42.5°	8526.8	5200.5	3312.8	3093.3	3062.9	3073.0	2988.6	2775.9	2681.3	2640.7	2586.7
45°	9357.6	5349.1	3106.8	2978.5	2964.9	2958.2	2856.9	2634.0	2580.0	2529.3	2519.2
47.5°	10107.2	5251.1	2975.1	2860.2	2873.8	2836.6	2620.5	2549.6	2488.8	2438.1	2421.2
50°	10151.1	5018.2	2789.3	2769.1	2772.4	2708.3	2502.3	2455.0	2377.3	2343.6	2320.0
52.5°	9921.4	4636.5	2617.1	2623.9	2634.0	2529.3	2357.1	2323.3	2259.2	2211.9	2198.4
55°	9276.5	4042.2	2448.3	2475.3	2502.3	2303.1	2249.1	2164.6	2113.9	2046.4	2049.8
57.5°	8172.2	3255.3	2211.9	2255.8	2313.2	2093.7	2053.2	1948.5	1874.2	1820.2	1813.4
60°	5477.4	2316.6	1857.3	1874.2	2002.5	1914.7	1911.3	1806.6	1705.4	1658.1	1631.0
62.5°	3231.7	1769.5	1604.0	1587.1	1583.8	1634.5	1718.8	1681.7	1550.0	1458.8	1485.9
65°	1691.8	1529.8	1492.6	1435.2	1401.4	1387.9	1452.1	1469.0	1381.2	1283.2	1276.5
67.5°	1421.7	1421.7	1391.3	1371.0	1323.7	1266.4	1225.8	1171.8	1158.3	1131.3	1097.5
70°	1293.4	1327.1	1317.0	1269.7	1229.2	1165.0	1060.3	972.5	888.1	857.7	878.0
72.5°	1127.9	1161.7	1161.7	1138.0	1084.0	986.1	884.7	783.5	712.5	658.5	651.8
75°	867.9	884.7	925.3	898.3	827.4	766.6	661.9	557.2	489.6	439.0	428.9
77.5°	553.8	580.8	580.8	577.4	526.8	469.4	401.8	327.6	276.9	239.8	229.6
80°	368.1	385.0	398.5	385.0	351.2	307.3	256.7	206.0	168.9	138.4	131.7
82.5°	270.1	290.4	300.6	287.0	253.3	219.5	182.3	145.2	108.1	84.4	77.7
85°	104.7	108.1	121.6	145.2	141.8	138.4	111.4	81.1	60.8	43.9	40.5
87.5°	27.0	23.6	27.0	27.0	23.6	20.3	20.3	20.3	20.3	10.1	13.5
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)