

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: P954867

Luminaire Tested: **GALN-SB8A-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33579 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 227.1
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

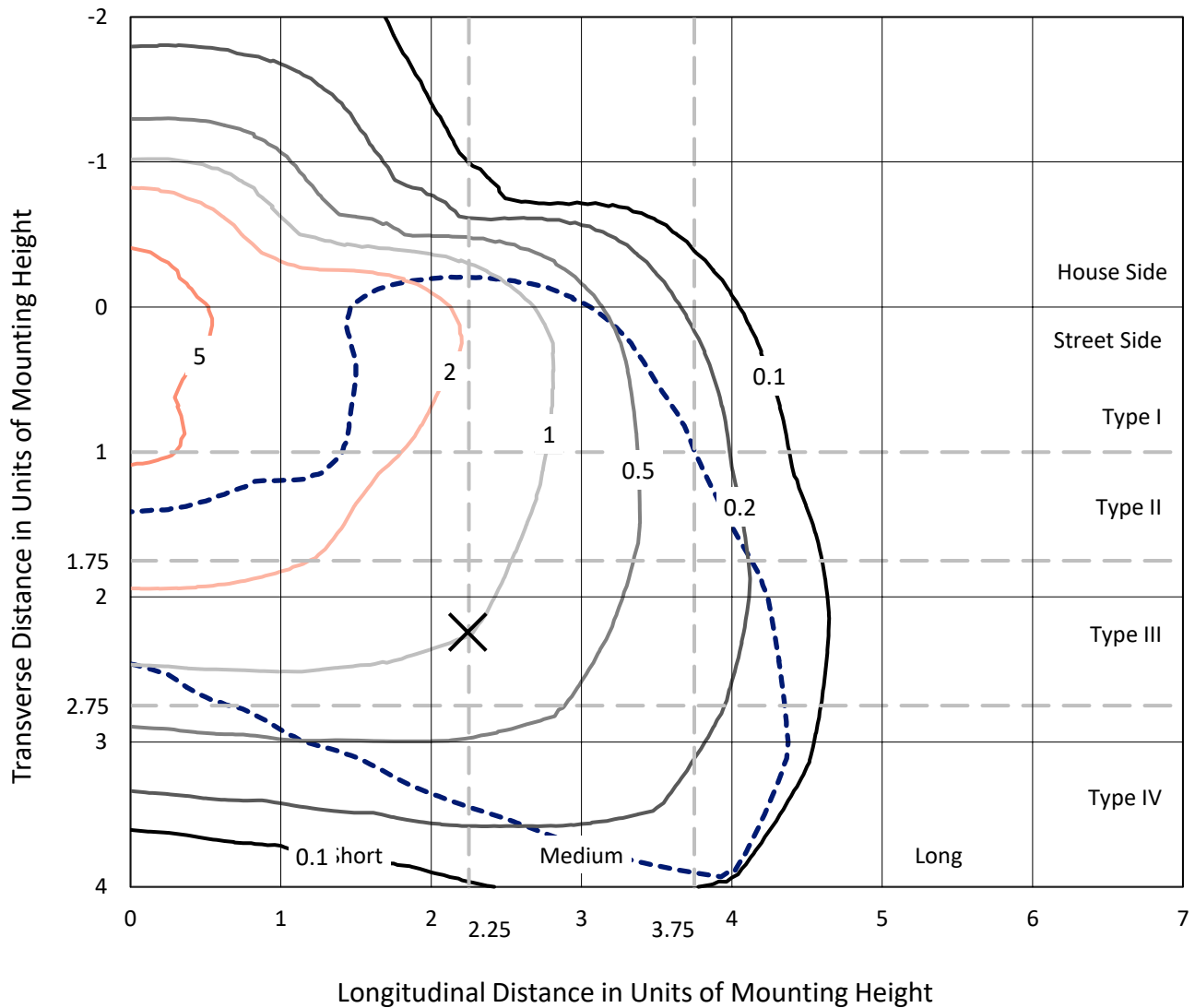


REPORT NUMBER: P954867

CATALOG NUMBER: GALN-SB8A-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

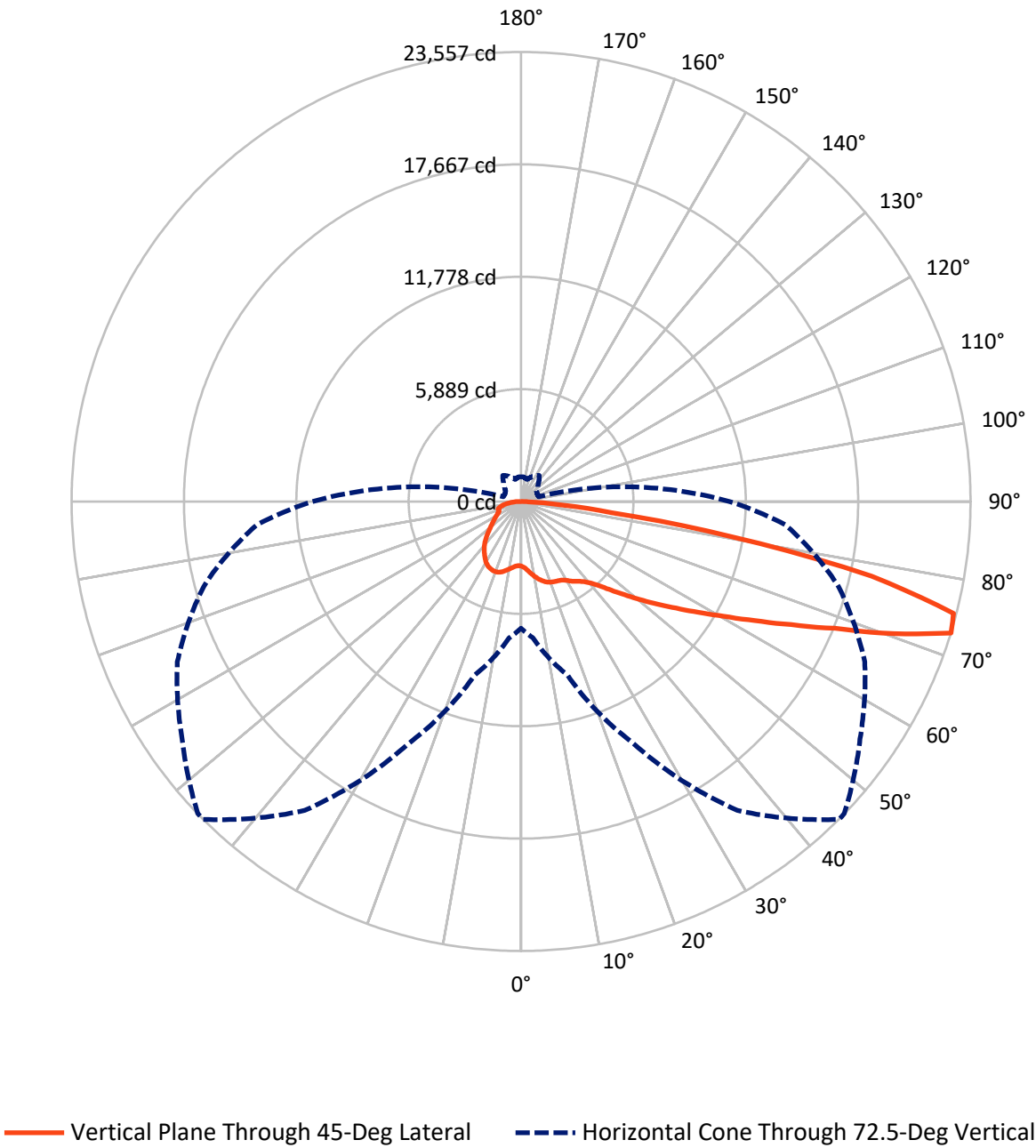
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P954867
CATALOG NUMBER: GALN-SB8A-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P954867

CATALOG NUMBER: GALN-SB8A-727-U-T4W

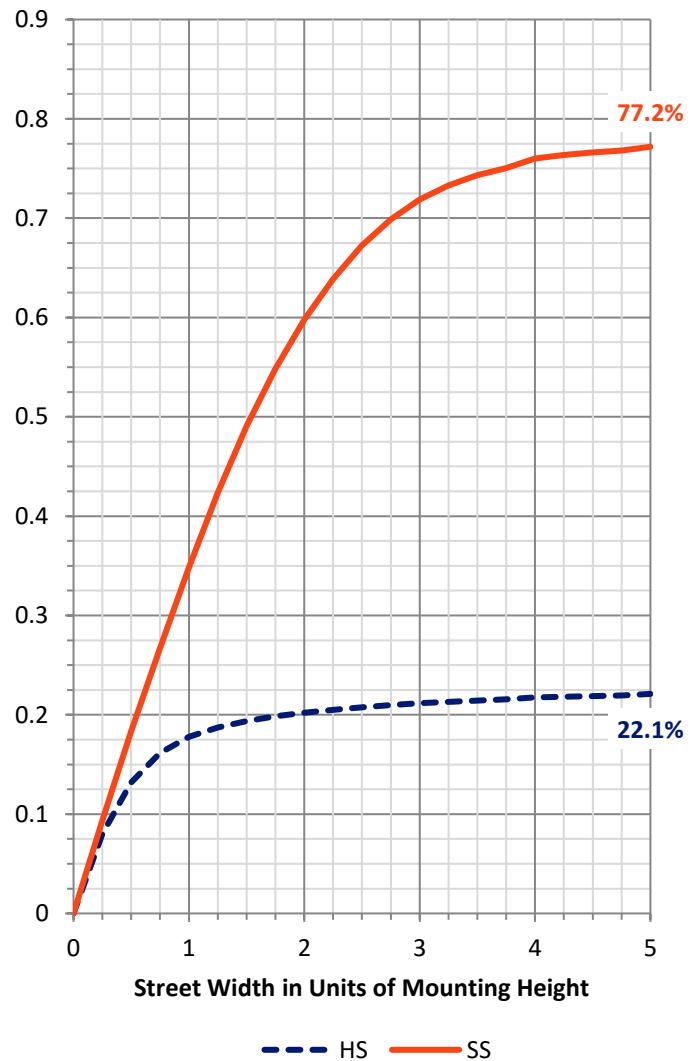
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7591.0	0.0	7591.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25987.9	0.0	25987.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	33579.0	0.0	33579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.0
10°-20°	1149.5	3.4
20°-30°	1999.7	6.0
30°-40°	2866.6	8.5
40°-50°	4036.4	12.0
50°-60°	6182.6	18.4
60°-70°	8956.4	26.7
70°-80°	7152.2	21.3
80°-90°	890.8	2.7
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°	33579.0	100.0
0°-180°	33579.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954867

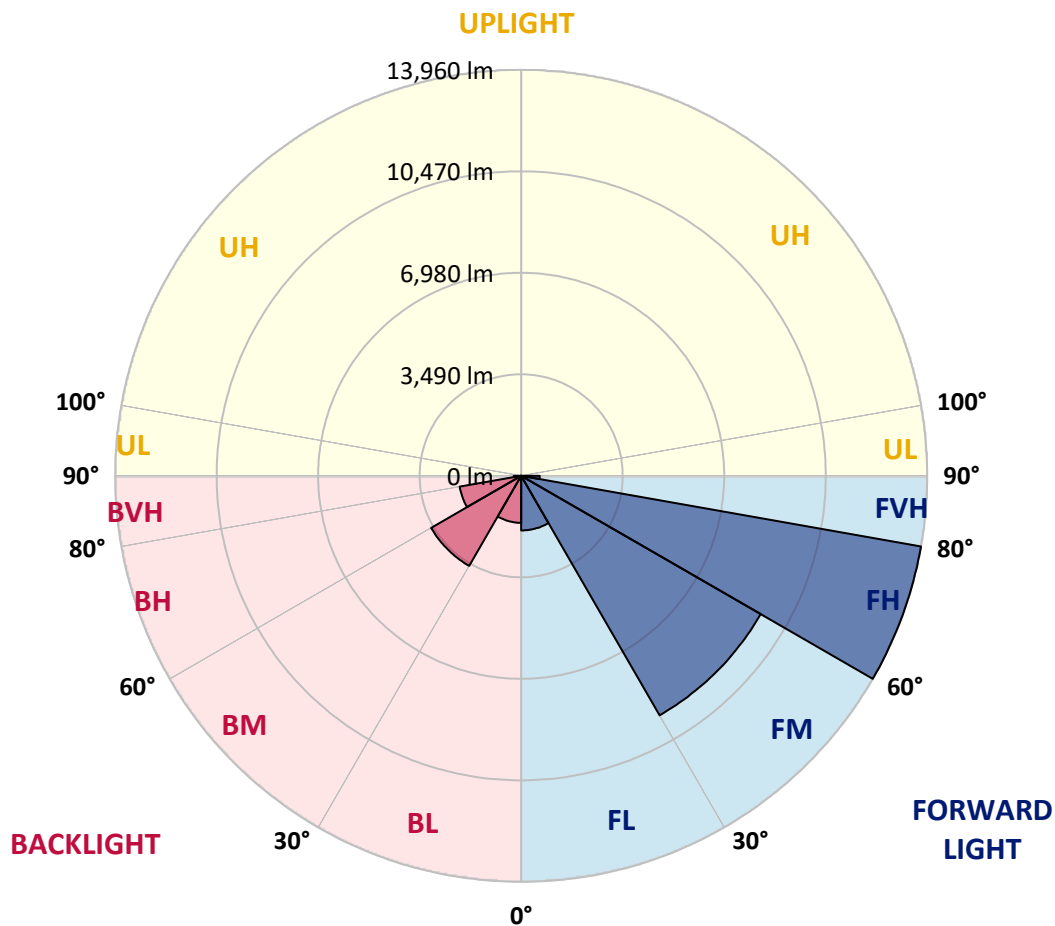
CATALOG NUMBER: GALN-SB8A-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1877.8	5.6			
FM	(30°-60°)	9511.3	28.3			
FH	(60°-80°)	13959.8	41.6			G5
FVH	(80°-90°)	639.1	1.9			G4/750
BL	(0°-30°)	1616.2	4.8	B3/2500		
BM	(30°-60°)	3574.3	10.6	B3/5000		
BH	(60°-80°)	2148.8	6.4	B3/2500		G3/2500
BVH	(80°-90°)	251.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P954867

CATALOG NUMBER: GALN-SB8A-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5
2.5°	3520.1	3543.1	3521.9	3502.4	3493.6	3470.6	3468.8	3454.7	3445.8	3421.1	3414.0
5°	3766.0	3796.1	3760.7	3721.8	3686.4	3629.8	3622.7	3582.0	3536.1	3483.0	3452.9
7.5°	4043.7	4070.3	4029.6	3971.2	3909.3	3815.5	3813.8	3739.5	3667.0	3576.7	3525.4
10°	4286.1	4321.5	4266.6	4187.0	4109.2	4003.0	3990.7	3905.8	3813.8	3697.0	3619.2
12.5°	4500.1	4524.9	4471.8	4374.5	4284.3	4178.2	4162.3	4068.5	3965.9	3833.2	3734.2
15°	4669.9	4701.8	4631.0	4526.6	4431.1	4326.8	4312.6	4227.7	4125.1	3985.4	3858.0
17.5°	4781.4	4807.9	4735.4	4618.6	4526.6	4440.0	4429.4	4358.6	4268.4	4126.9	3990.7
20°	4823.8	4852.1	4776.1	4657.5	4572.6	4505.4	4500.1	4448.8	4386.9	4257.8	4119.8
22.5°	4866.3	4892.8	4793.8	4669.9	4595.6	4553.2	4551.4	4517.8	4493.0	4386.9	4252.5
25°	5037.9	5044.9	4912.3	4733.6	4627.5	4590.3	4588.6	4586.8	4597.4	4514.3	4395.7
27.5°	5186.5	5184.7	5071.5	4903.4	4738.9	4661.1	4659.3	4677.0	4710.6	4641.6	4544.3
30°	5404.0	5384.6	5250.1	5075.0	4924.7	4804.4	4793.8	4777.8	4804.4	4749.5	4692.9
32.5°	5865.7	5803.8	5586.2	5274.9	5078.5	4986.6	4972.4	4873.4	4884.0	4850.4	4822.1
35°	6527.3	6445.9	6155.8	5653.4	5269.6	5138.7	5131.6	5006.0	4984.8	4954.7	4965.3
37.5°	7314.5	7213.6	6875.8	6201.8	5598.6	5315.6	5305.0	5191.8	5105.1	5073.2	5133.4
40°	8105.2	7977.8	7698.3	6870.5	6083.3	5611.0	5577.4	5405.8	5306.7	5253.7	5381.0
42.5°	8872.9	8766.7	8527.9	7620.5	6681.2	6042.6	5968.3	5674.7	5600.4	5550.8	5780.8
45°	9552.1	9456.6	9281.5	8421.8	7381.7	6629.9	6557.4	6078.0	6055.0	6055.0	6387.5
47.5°	10104.0	10082.8	9897.1	9239.0	8207.8	7298.5	7172.9	6638.7	6700.6	6796.2	7249.0
50°	10716.1	10657.7	10459.6	10043.9	9178.9	8064.5	7961.9	7326.8	7558.6	7820.4	8494.3
52.5°	11278.6	11310.4	11089.3	10882.4	10275.6	8918.9	8738.4	8138.8	8639.4	9072.8	9953.7
55°	11857.0	11858.8	11796.9	11768.6	11425.4	9863.5	9665.3	9115.2	9911.2	10449.0	11655.4
57.5°	12400.1	12403.6	12495.6	12745.0	12759.2	10953.1	10728.5	10314.5	11324.6	11872.9	13410.1
60°	12884.8	12909.5	13160.7	13744.5	13932.0	12202.0	11989.7	11731.4	12785.7	13337.6	15255.1
62.5°	13047.5	13137.7	13696.7	14526.3	15090.6	13733.8	13525.1	13371.2	14321.1	14834.1	16797.6
65°	12771.5	12978.5	14059.3	15172.0	16282.8	15554.0	15347.1	15179.0	15916.7	16399.6	18064.1
67.5°	12094.1	12361.2	14038.1	15849.5	17729.8	17744.0	17551.2	17156.7	17627.2	17812.9	18476.3
70°	10309.2	10709.0	12801.6	16102.4	19390.8	20738.7	20553.0	19537.6	19334.2	18435.6	17315.9
72.5°	6642.3	7180.0	9426.5	14020.4	19760.5	23556.6	23546.0	21686.9	19873.7	17225.7	13887.7
75°	2423.4	2752.4	4379.8	8800.3	16587.1	23413.3	23482.3	21318.9	18142.0	13305.8	8651.8
77.5°	882.7	965.8	1429.3	3382.2	10201.3	18785.9	18929.1	17043.5	12913.1	6677.6	3428.2
80°	463.5	509.4	732.3	1312.5	4371.0	11156.5	11381.2	10128.8	6069.1	2011.3	1027.7
82.5°	256.5	277.7	410.4	712.9	1968.8	4770.8	4905.2	4001.3	2135.1	852.6	424.5
85°	138.0	146.8	192.8	389.2	962.3	1653.9	1691.1	1195.8	850.8	500.6	205.2
87.5°	40.7	49.5	63.7	123.8	376.8	371.5	380.3	237.0	336.1	253.0	67.2
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: P954867

CATALOG NUMBER: GALN-SB8A-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5
2.5°	3403.4	3398.1	3378.6	3369.8	3359.2	3357.4	3366.2	3368.0	3369.8	3371.5	3378.6
5°	3435.2	3417.5	3399.8	3389.2	3392.8	3394.5	3412.2	3424.6	3433.5	3440.5	3444.1
7.5°	3497.1	3483.0	3452.9	3451.1	3456.5	3472.4	3495.4	3523.7	3539.6	3552.0	3555.5
10°	3589.1	3562.6	3527.2	3532.5	3543.1	3566.1	3613.9	3636.9	3663.4	3686.4	3681.1
12.5°	3682.9	3659.9	3619.2	3622.7	3640.4	3681.1	3727.1	3755.4	3773.1	3790.8	3797.9
15°	3804.9	3764.2	3720.0	3720.0	3751.9	3796.1	3817.3	3840.3	3850.9	3870.4	3877.5
17.5°	3930.5	3877.5	3819.1	3815.5	3854.5	3875.7	3888.1	3891.6	3895.1	3916.4	3923.4
20°	4056.1	3997.7	3914.6	3907.5	3916.4	3912.8	3911.1	3907.5	3912.8	3939.4	3950.0
22.5°	4179.9	4112.7	3997.7	3965.9	3941.1	3907.5	3905.8	3904.0	3907.5	3934.1	3951.8
25°	4325.0	4243.6	4089.7	3994.2	3911.1	3865.1	3870.4	3872.1	3875.7	3896.9	3925.2
27.5°	4482.4	4392.2	4174.6	3985.4	3835.0	3803.2	3794.3	3799.6	3812.0	3845.6	3879.2
30°	4639.9	4533.7	4252.5	3950.0	3739.5	3695.3	3667.0	3679.3	3718.3	3751.9	3789.0
32.5°	4783.1	4677.0	4314.4	3872.1	3617.4	3548.4	3511.3	3527.2	3566.1	3578.5	3622.7
35°	4951.2	4830.9	4340.9	3748.3	3484.8	3378.6	3329.1	3306.1	3325.6	3313.2	3352.1
37.5°	5138.7	5013.1	4337.4	3585.6	3329.1	3207.0	3138.1	3051.4	3010.7	2968.2	2994.8
40°	5416.4	5236.0	4294.9	3389.2	3136.3	3024.8	2901.0	2754.2	2662.2	2579.1	2584.4
42.5°	5795.0	5545.5	4217.1	3173.4	2918.7	2814.3	2646.3	2474.7	2329.7	2191.7	2179.3
45°	6359.2	5950.6	4119.8	2943.5	2683.4	2580.8	2398.6	2205.8	2041.3	1864.4	1843.2
47.5°	7172.9	6495.4	4027.8	2681.7	2435.8	2342.0	2177.5	1998.9	1804.3	1632.7	1613.2
50°	8290.9	7277.3	3942.9	2426.9	2191.7	2120.9	1990.0	1807.8	1611.5	1473.5	1464.7
52.5°	9713.1	8340.4	3907.5	2181.1	1963.5	1937.0	1832.6	1662.8	1477.0	1360.3	1351.4
55°	11345.8	9612.3	3907.5	1945.8	1763.6	1772.5	1699.9	1542.5	1381.5	1277.2	1266.5
57.5°	13012.1	10900.0	3836.8	1728.2	1593.8	1630.9	1584.9	1447.0	1301.9	1194.0	1176.3
60°	14547.5	11979.1	3550.2	1530.1	1443.4	1501.8	1471.7	1353.2	1176.3	1086.1	1072.0
62.5°	15727.4	12587.6	2998.3	1372.7	1319.6	1386.8	1370.9	1229.4	1153.3	1116.2	1103.8
65°	16318.2	12488.5	2292.5	1232.9	1215.2	1319.6	1286.0	1280.7	1220.5	1178.1	1163.9
67.5°	15955.6	11635.9	1662.8	1130.3	1155.1	1257.7	1386.8	1408.1	1296.6	1213.5	1199.3
70°	14365.3	10093.4	1238.2	1033.0	1079.0	1259.5	1581.4	1473.5	1271.8	1174.6	1158.6
72.5°	10928.3	7526.7	960.5	930.4	980.0	1268.3	1668.1	1443.4	1201.1	1298.4	1287.8
75°	6249.6	4132.2	771.2	804.9	856.2	1185.2	1623.9	1365.6	1146.3	1192.2	1192.2
77.5°	2382.7	1588.5	636.8	681.0	688.1	1034.8	1553.1	1360.3	1091.4	1064.9	971.1
80°	826.1	620.9	527.1	541.3	532.4	919.8	1489.4	1183.4	893.3	799.5	773.0
82.5°	337.9	309.6	417.5	399.8	378.5	714.6	1202.9	967.6	730.6	645.7	638.6
85°	146.8	196.3	276.0	242.3	219.3	495.3	964.1	819.0	617.4	532.4	530.7
87.5°	30.1	74.3	116.7	109.7	113.2	330.8	684.6	582.0	436.9	327.2	256.5
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)