

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: P943825

Luminaire Tested: **GALN-SB8C-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55656 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8
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



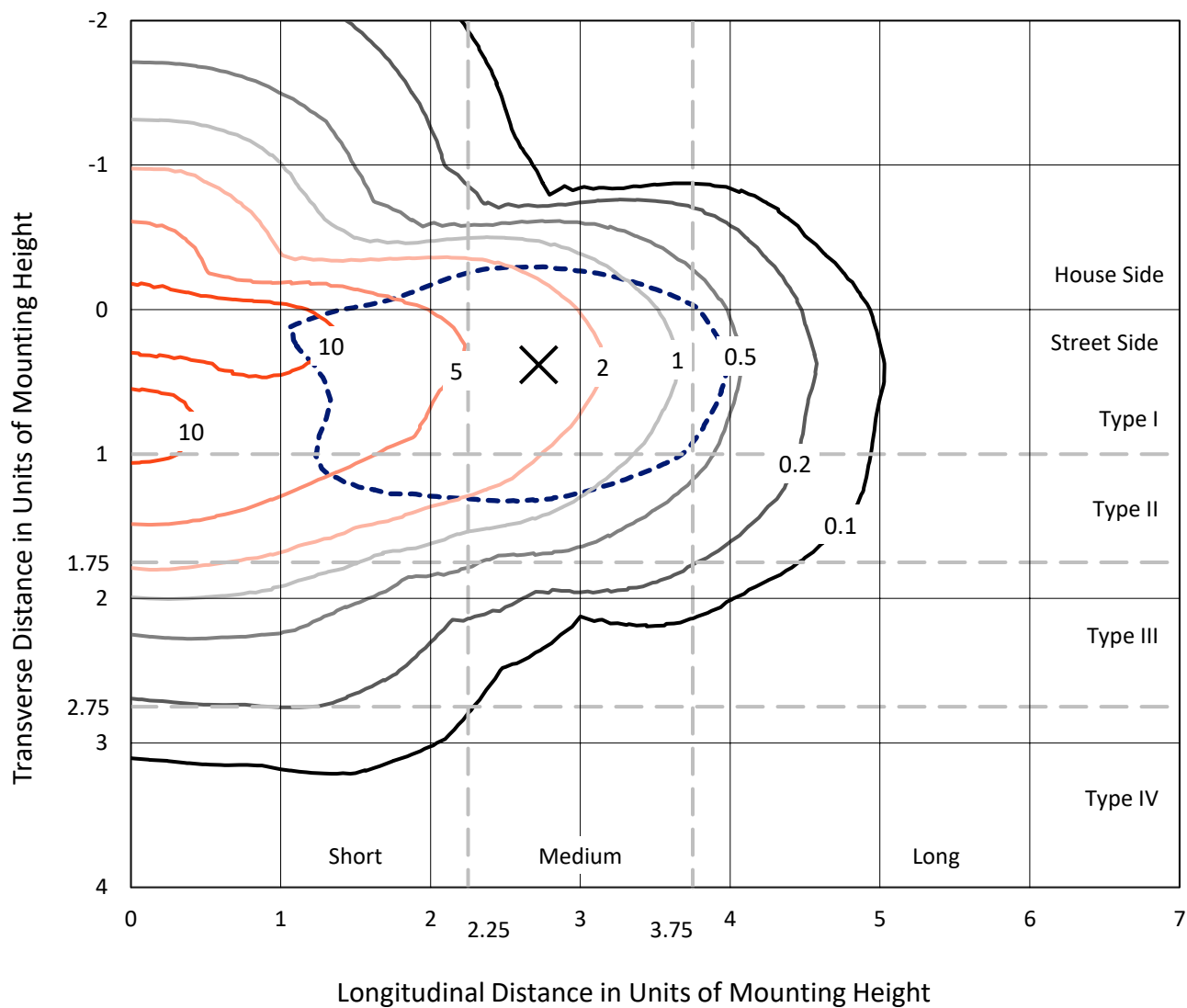
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Iso-Footcandle Lines of Horizontal Illumination

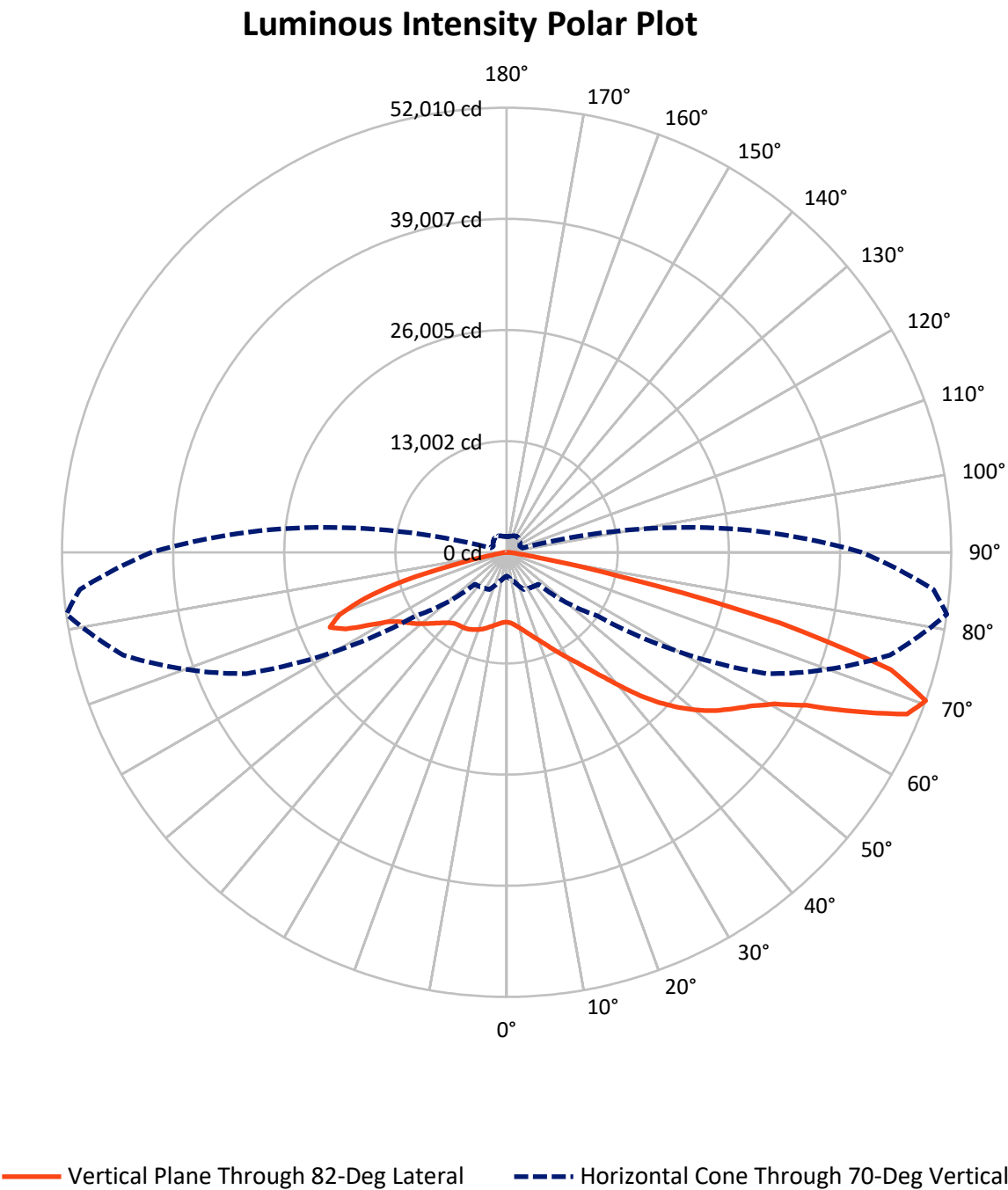
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type II - Medium - N/A

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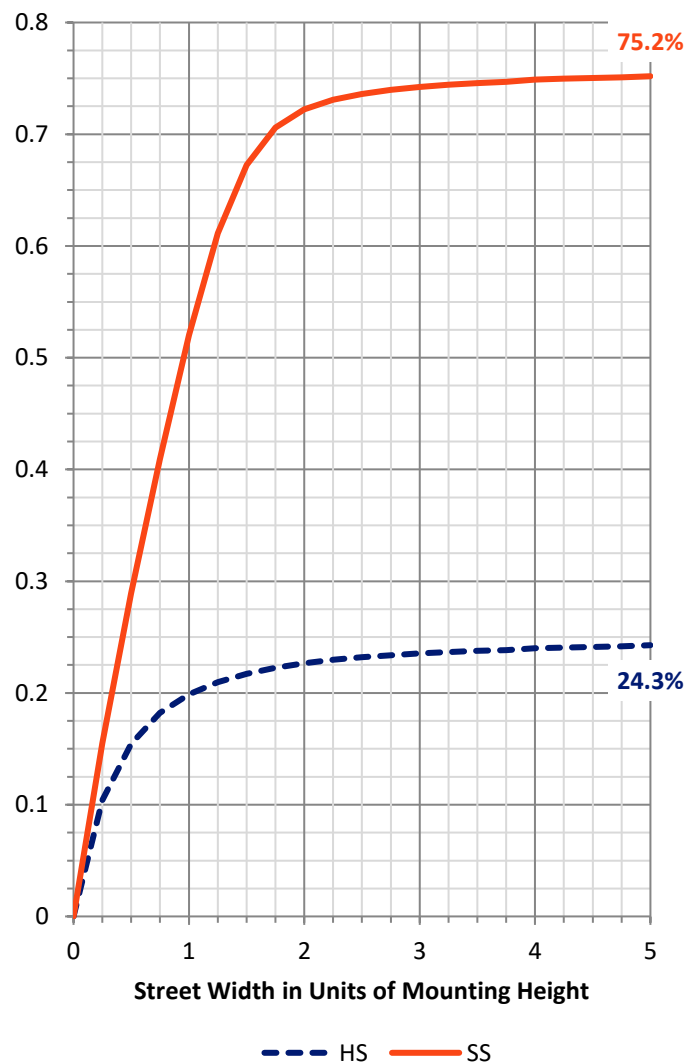
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13720.6	0.0	13720.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	41935.4	0.0	41935.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	55656.0	0.0	55656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.4	1.4
10°-20°	2213.5	4.0
20°-30°	3703.0	6.7
30°-40°	5785.0	10.4
40°-50°	9213.3	16.6
50°-60°	12821.4	23.0
60°-70°	13411.8	24.1
70°-80°	7009.7	12.6
80°-90°	727.9	1.3
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°	55656.0	100.0
0°-180°	55656.0	100.0

Coefficient of Utilization



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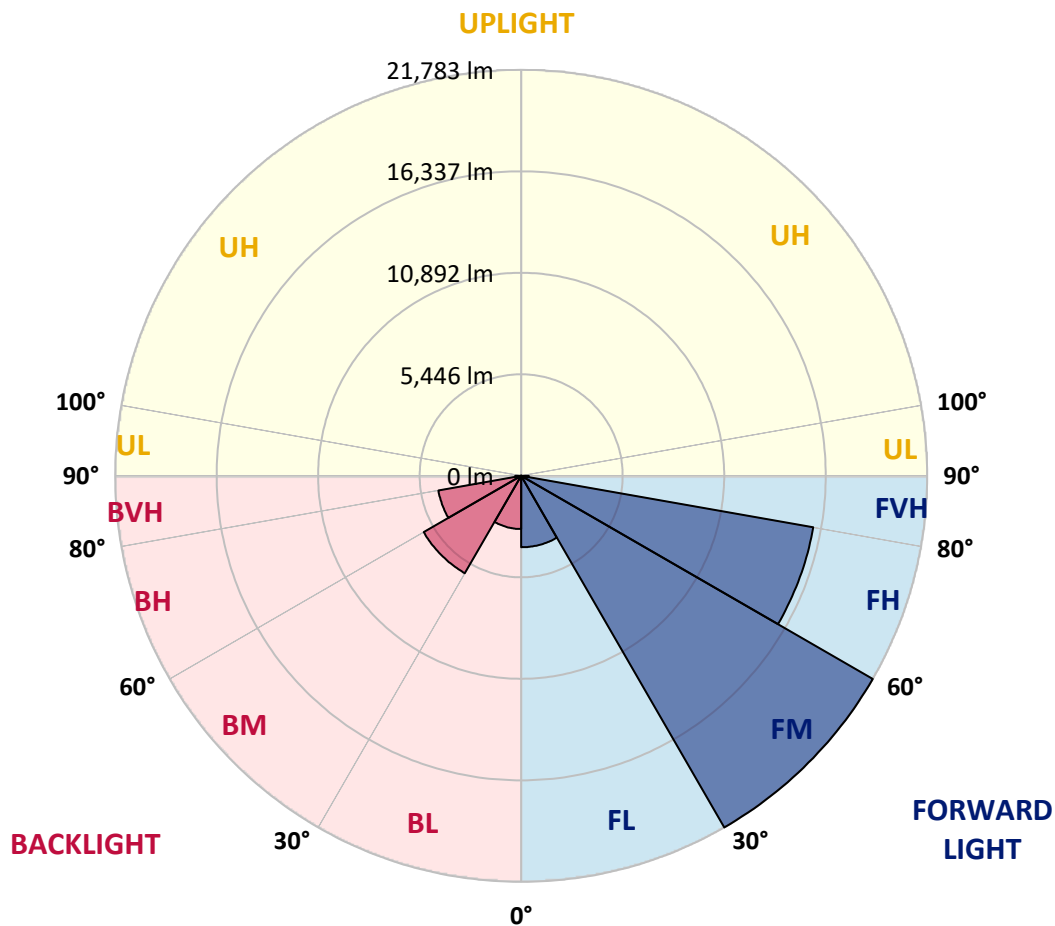
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3832.5	6.9			
FM	(30°-60°)	21783.2	39.1			
FH	(60°-80°)	15912.2	28.6			G5
FVH	(80°-90°)	407.5	0.7			G3/500
BL	(0°-30°)	2854.4	5.1	B4/5000		
BM	(30°-60°)	6036.5	10.8	B4/8500		
BH	(60°-80°)	4509.3	8.1	B4/5000		G4/5000
BVH	(80°-90°)	320.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9
2.5°	8354.8	8402.0	8387.3	8372.5	8372.5	8351.8	8348.9	8319.3	8295.7	8257.3	8248.5
5°	8461.1	8511.3	8505.4	8517.2	8555.6	8564.5	8573.3	8555.6	8508.4	8461.1	8440.4
7.5°	8366.6	8422.7	8440.4	8511.3	8629.4	8735.8	8815.5	8848.0	8803.7	8735.8	8703.3
10°	8047.6	8109.7	8171.7	8340.0	8549.7	8800.7	9013.4	9140.3	9131.5	9066.5	9010.4
12.5°	7400.9	7465.8	7598.7	7926.6	8310.5	8753.5	9149.2	9415.0	9506.6	9459.3	9361.8
15°	6884.1	6940.2	7040.6	7377.3	7876.4	8549.7	9199.4	9716.2	9949.5	9923.0	9804.8
17.5°	6869.3	6892.9	6954.9	7114.4	7498.3	8230.7	9146.3	10011.6	10457.5	10454.6	10306.9
20°	7129.2	7138.0	7173.5	7206.0	7424.5	7988.6	9010.4	10256.7	11027.5	11027.5	10868.0
22.5°	7489.5	7483.6	7519.0	7489.5	7595.8	7967.9	8924.8	10472.3	11662.4	11709.7	11508.9
25°	8029.9	8000.4	7991.5	7923.6	7944.3	8159.9	9019.3	10717.4	12415.5	12513.0	12261.9
27.5°	8750.5	8703.3	8670.8	8514.3	8461.1	8555.6	9308.7	11012.7	13254.2	13422.6	13103.6
30°	9689.7	9604.0	9556.8	9285.1	9093.1	9107.9	9745.8	11405.5	14131.4	14403.1	13998.5
32.5°	10971.4	10838.5	10711.5	10265.5	9914.1	9798.9	10309.8	11948.9	15082.3	15516.4	14996.7
35°	12406.7	12300.3	12164.5	11476.4	10935.9	10670.1	11071.8	12707.9	16195.7	16883.8	16207.5
37.5°	13788.8	13697.2	13762.2	12834.9	12137.9	11751.0	12070.0	13726.8	17569.0	18584.9	17725.5
40°	15218.2	15147.3	15156.1	14270.2	13458.0	13023.9	13280.8	15005.5	19143.1	20607.9	19550.6
42.5°	16771.6	16718.4	16541.2	15755.7	14843.1	14438.5	14674.8	16482.2	20832.3	22911.4	21552.9
45°	18511.1	18478.6	18313.2	17412.4	16367.0	15912.2	16231.1	18112.4	22530.4	25079.1	23564.1
47.5°	20014.3	20040.8	20020.2	19261.2	18177.3	17509.9	17890.9	19813.4	24110.4	27116.9	25492.6
50°	20737.8	20876.6	21080.4	20844.1	20170.8	19491.5	19565.4	21455.5	25616.6	29027.6	27341.3
52.5°	20359.8	20622.6	21177.8	21555.9	21815.8	21674.0	21476.1	23085.7	27034.2	30752.3	29089.6
55°	18951.1	19320.2	20241.7	21154.2	22480.2	23510.9	23770.8	24893.1	28416.3	32270.3	30743.5
57.5°	16384.7	16984.2	17811.1	19656.9	21889.6	24399.9	26446.5	27400.4	29881.1	33891.6	32474.1
60°	11984.3	12787.6	13815.4	16561.9	19822.3	23924.4	28723.4	31251.4	31963.2	35991.4	34727.4
62.5°	7669.6	8165.8	9110.8	11697.9	15445.6	21487.9	29420.4	36065.2	35492.3	39434.9	38106.0
65°	5250.9	5569.9	6435.2	7888.2	9985.0	15994.9	27553.9	39674.1	41097.6	44892.6	43882.5
67.5°	3815.6	4057.8	4796.1	6069.0	6506.0	9465.2	21381.6	39508.8	46546.4	50515.6	48944.4
70°	2782.0	2953.3	3573.4	4796.1	5005.8	5265.7	12953.0	33584.5	46428.2	52009.9	50128.7
72.5°	2061.4	2179.5	2595.9	3721.1	4051.9	3555.7	6411.5	24408.7	39895.6	47042.5	45533.4
75°	1491.4	1580.0	1887.1	2846.9	3242.7	2708.1	3198.4	14264.3	27828.6	33091.3	33357.1
77.5°	1140.0	1207.9	1408.7	2085.0	2595.9	2031.8	1984.6	6562.2	13195.2	13260.2	14004.4
80°	915.5	959.8	1069.1	1467.8	1990.5	1520.9	1293.5	2649.1	4170.0	3529.1	3703.4
82.5°	673.3	747.2	903.7	1030.7	1423.5	1048.4	788.5	1337.8	1585.9	1364.4	1376.2
85°	383.9	434.1	546.4	738.3	909.6	640.9	451.8	593.6	738.3	605.4	540.4
87.5°	135.9	177.2	192.0	289.4	395.7	265.8	174.2	171.3	242.2	180.1	150.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9	8159.9
2.5°	8218.9	8204.2	8145.1	8065.4	7982.7	7902.9	7876.4	7820.2	7781.8	7761.2	7784.8
5°	8384.3	8337.1	8198.3	8021.1	7835.0	7634.2	7492.4	7362.5	7268.0	7179.4	7214.8
7.5°	8620.6	8537.9	8298.7	7988.6	7657.8	7324.1	7076.0	6887.0	6760.0	6677.3	6695.0
10°	8895.2	8768.2	8402.0	7938.4	7427.5	6949.0	6656.7	6494.2	6414.5	6370.2	6382.0
12.5°	9211.2	9031.1	8508.4	7823.2	7076.0	6529.7	6328.8	6281.6	6284.5	6287.5	6293.4
15°	9601.1	9350.0	8594.0	7572.2	6618.3	6207.8	6172.3	6249.1	6328.8	6367.2	6364.3
17.5°	10041.1	9686.7	8608.8	7158.7	6169.4	6001.0	6113.3	6278.6	6399.7	6452.9	6464.7
20°	10513.6	10029.3	8502.4	6574.0	5800.2	5832.7	6033.5	6246.2	6379.0	6447.0	6464.7
22.5°	11054.1	10395.5	8248.5	5959.7	5499.0	5649.6	5885.9	6092.6	6231.4	6299.3	6317.0
25°	11671.3	10806.0	7849.8	5442.9	5239.1	5442.9	5679.1	5850.4	5962.6	6024.7	6042.4
27.5°	12356.5	11234.2	7318.2	5032.4	5011.7	5230.2	5425.1	5558.0	5617.1	5664.4	5682.1
30°	13044.6	11624.0	6674.4	4722.3	4813.8	5020.5	5159.4	5218.4	5236.1	5245.0	5265.7
32.5°	13788.8	11960.7	5998.1	4465.3	4624.8	4816.8	4899.5	4926.0	4843.4	4787.2	4805.0
35°	14689.5	12321.0	5336.5	4261.6	4438.8	4604.1	4630.7	4607.1	4509.6	4394.5	4400.4
37.5°	15802.9	12769.9	4807.9	4116.8	4264.5	4373.8	4341.3	4335.4	4344.2	4208.4	4217.3
40°	17167.3	13354.7	4421.0	4004.6	4122.8	4146.4	4054.8	4105.0	4149.3	3942.6	3948.5
42.5°	18682.3	14060.5	4175.9	3927.8	4004.6	3948.5	3806.8	3862.9	3857.0	3585.3	3582.3
45°	20226.9	14828.3	4090.3	3871.7	3895.4	3783.1	3626.6	3641.4	3517.3	3272.2	3281.1
47.5°	21762.6	15652.3	4143.4	3824.5	3759.5	3632.5	3511.4	3446.5	3263.4	3080.3	3080.3
50°	23268.8	16517.6	4338.3	3730.0	3573.4	3499.6	3411.0	3295.8	3100.9	2944.4	2932.6
52.5°	24665.7	17388.8	4556.9	3573.4	3340.1	3384.4	3328.3	3195.4	3003.5	2844.0	2846.9
55°	25988.7	18260.0	4642.5	3357.9	3121.6	3284.0	3251.5	3006.4	2776.1	2646.1	2634.3
57.5°	27429.9	19308.4	4548.0	3083.2	2944.4	3168.9	3044.8	2773.1	2640.2	2542.8	2533.9
60°	29426.3	20953.4	4344.2	2743.6	2776.1	2997.6	2784.9	2672.7	2528.0	2418.7	2412.8
62.5°	32742.8	24021.8	4016.4	2406.9	2578.2	2743.6	2660.9	2548.7	2401.0	2294.7	2294.7
65°	37645.2	28286.4	3399.2	2144.1	2356.7	2495.5	2528.0	2415.8	2262.2	2150.0	2155.9
67.5°	41779.8	30962.0	2572.3	1925.5	2129.3	2294.7	2386.2	2277.0	2114.5	2005.3	2008.2
70°	41552.4	29018.8	1963.9	1709.9	1928.5	2096.8	2214.9	2129.3	1955.1	1851.7	1860.6
72.5°	36906.9	24275.8	1588.9	1491.4	1724.7	1890.1	2031.8	1966.9	1789.7	1689.3	1689.3
75°	27113.9	17232.3	1269.9	1269.9	1470.7	1674.5	1831.0	1789.7	1627.2	1556.4	1535.7
77.5°	11429.1	7229.6	995.2	1054.3	1222.7	1438.2	1633.2	1647.9	1506.2	1594.8	1447.1
80°	3038.9	1993.5	759.0	829.9	959.8	1187.2	1420.5	1414.6	1261.0	1178.4	1095.7
82.5°	1157.7	785.6	540.4	584.7	694.0	909.6	1125.2	1160.6	1007.1	871.2	871.2
85°	445.9	336.7	333.7	351.4	404.6	602.5	850.5	880.1	759.0	643.8	664.5
87.5°	115.2	100.4	124.0	118.1	186.1	321.9	487.3	505.0	463.7	268.7	383.9
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)