

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: P954506

Luminaire Tested: **GALN-SB7D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68024 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

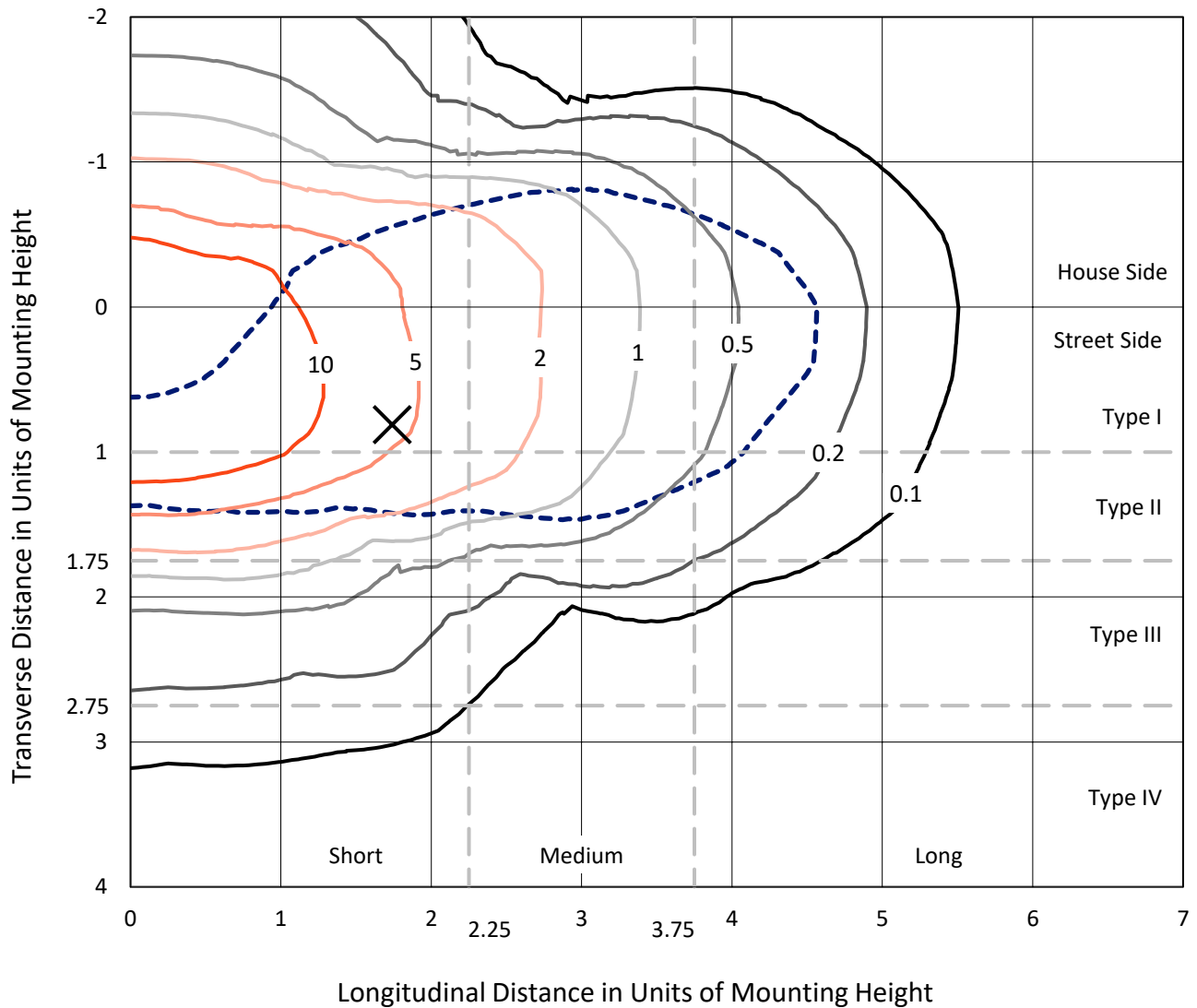
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

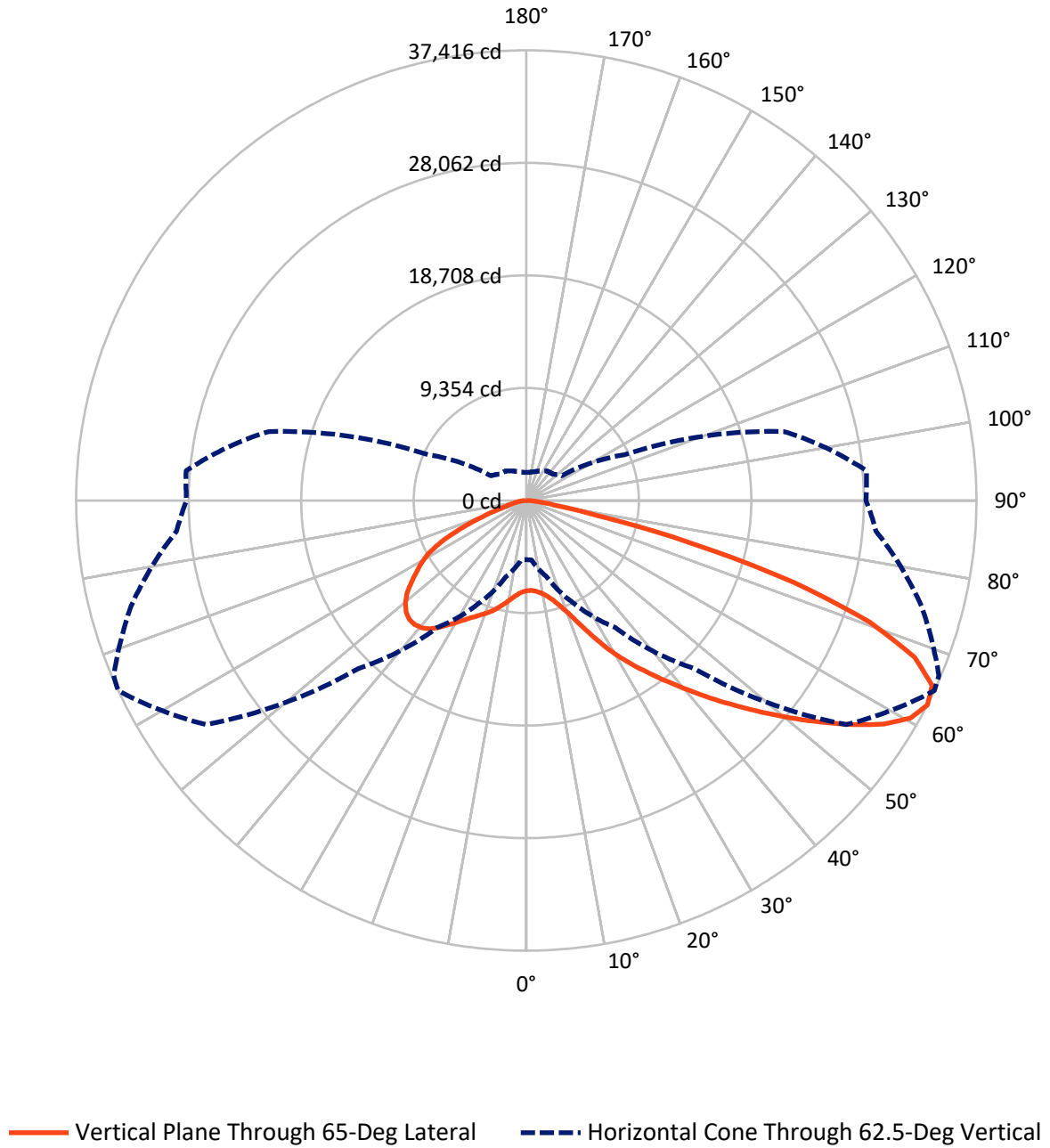
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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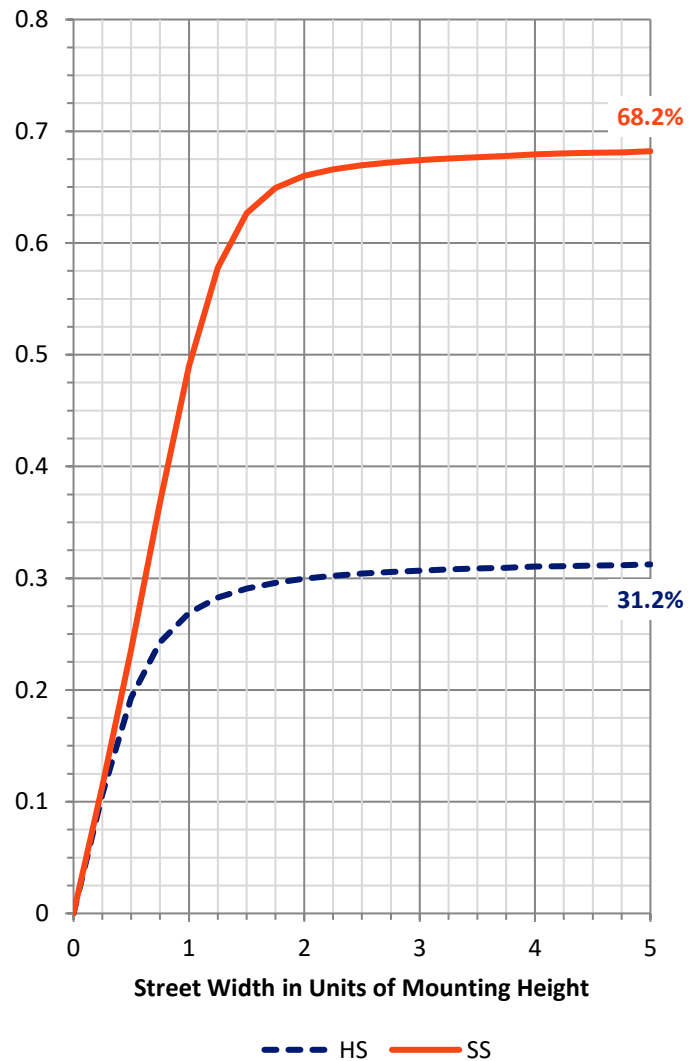
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21465.4	0.0	21465.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	46558.6	0.0	46558.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	68024.0	0.0	68024.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.3	1.1
10°-20°	2534.3	3.7
20°-30°	5138.5	7.6
30°-40°	8892.2	13.1
40°-50°	13456.6	19.8
50°-60°	15777.0	23.2
60°-70°	13227.1	19.4
70°-80°	7302.4	10.7
80°-90°	948.5	1.4
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°	68024.0	100.0
0°-180°	68024.0	100.0

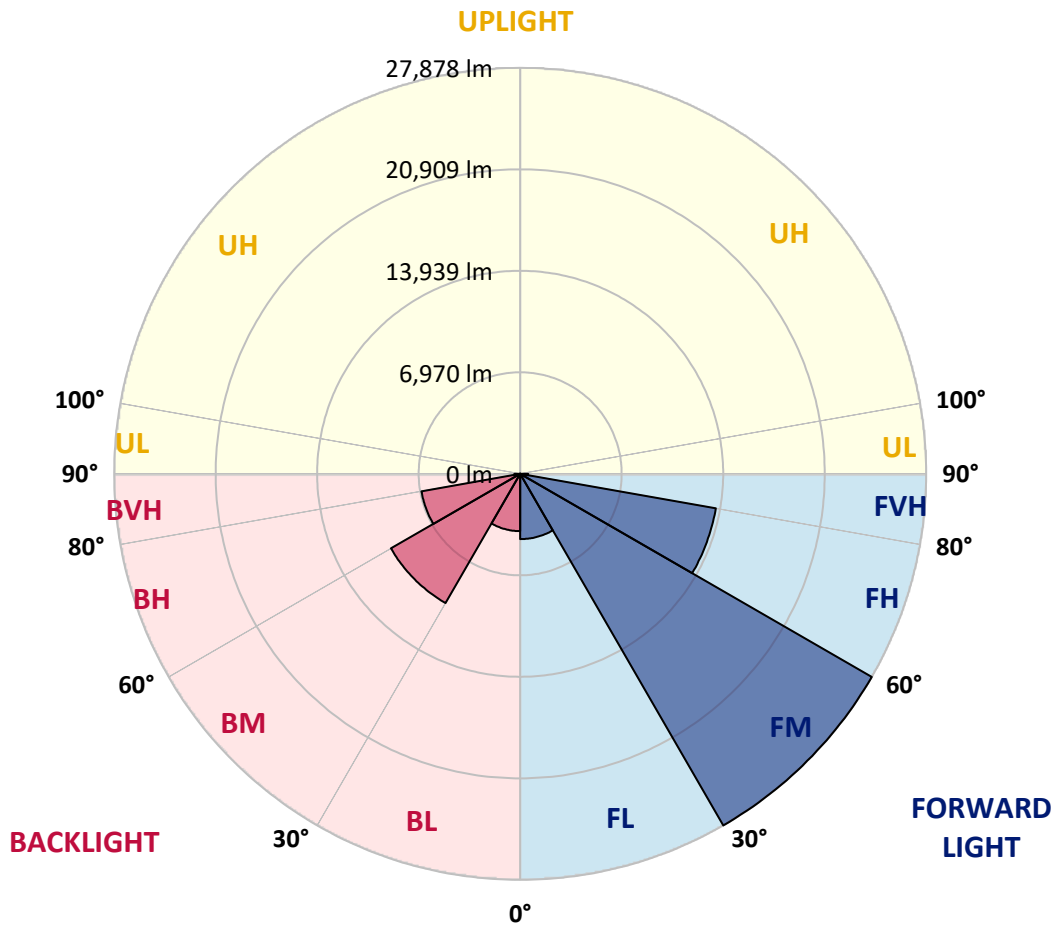


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4483.7	6.6			
FM (30°-60°)	27878.4	41.0			
FH (60°-80°)	13643.6	20.1			G5
FVH (80°-90°)	552.8	0.8			G4/750
BL (0°-30°)	3936.5	5.8	B4/5000		
BM (30°-60°)	10247.3	15.1	B5		
BH (60°-80°)	6885.9	10.1	B5		G5
BVH (80°-90°)	395.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9
2.5°	7446.5	7425.4	7443.0	7443.0	7450.1	7446.5	7471.2	7478.3	7488.9	7510.1	7510.1
5°	7372.4	7368.9	7400.7	7428.9	7457.1	7481.8	7513.6	7559.5	7566.5	7591.2	7623.0
7.5°	7347.7	7326.5	7376.0	7411.2	7478.3	7538.3	7623.0	7700.6	7732.4	7743.0	7803.0
10°	7538.3	7503.0	7548.9	7570.1	7626.5	7686.5	7785.3	7908.9	7944.2	7986.5	8053.6
12.5°	7863.0	7824.2	7891.2	7923.0	7975.9	8028.9	8095.9	8215.9	8233.5	8311.2	8374.7
15°	8307.7	8261.8	8304.1	8342.9	8431.2	8480.6	8547.6	8664.1	8664.1	8724.1	8770.0
17.5°	8911.1	8851.1	8882.9	8897.0	8953.5	9027.6	9140.5	9242.9	9295.8	9274.6	9211.1
20°	9811.1	9737.0	9737.0	9666.4	9645.2	9705.2	9853.4	9994.6	10051.1	9941.7	9786.4
22.5°	11162.8	11056.9	10996.9	10756.9	10661.6	10668.7	10816.9	10989.8	11035.7	10841.6	10492.2
25°	12881.5	12715.6	12634.4	12281.5	12066.2	11879.2	11995.6	12218.0	12281.5	12041.5	11476.8
27.5°	14600.2	14610.7	14533.1	14109.6	13753.2	13410.8	13350.8	13583.8	13650.8	13379.1	12680.3
30°	17010.6	16760.0	16611.8	16103.6	15595.4	15115.4	14868.4	14963.7	14981.3	14656.6	13844.9
32.5°	19089.3	19025.7	18708.1	18263.4	17610.5	16858.8	16445.9	16294.2	16265.9	15803.6	14840.1
35°	21457.3	21422.0	21086.8	20557.4	19851.6	18806.9	18062.3	17628.2	17592.9	16943.5	15824.8
37.5°	23864.2	23864.2	23536.0	22957.2	22226.7	20920.9	19788.0	19099.8	18986.9	18139.9	16827.1
40°	25784.1	25667.6	25727.6	25484.1	24647.7	23260.7	21704.4	20705.6	20553.9	19537.5	17892.9
42.5°	26874.6	26835.8	27195.8	27467.5	27125.2	26017.0	23814.8	22445.5	22233.7	21076.2	19121.0
45°	27118.1	27075.8	27718.1	28713.3	29193.3	28738.0	26108.8	24277.1	24019.5	22685.5	20437.4
47.5°	26557.0	26472.3	27414.6	28985.0	30523.8	31324.9	28593.3	26264.1	25890.0	24252.4	21789.1
50°	24870.0	24788.9	26214.6	28300.4	30972.0	33082.4	31289.6	28371.0	27799.2	25932.3	23154.9
52.5°	21203.2	21242.1	23476.0	26341.7	30382.6	34176.4	33611.8	30590.8	29902.6	27651.0	24435.9
55°	16516.5	16601.2	19346.9	22502.0	28025.1	34010.6	35196.4	32877.7	32193.1	29267.4	25759.4
57.5°	11826.2	12200.3	14773.1	17896.4	23497.2	31381.3	35542.2	35051.7	34388.2	31032.0	27054.6
60°	7665.3	7732.4	10379.3	13527.3	17892.9	26708.7	34839.9	36699.8	36181.0	32831.8	28138.0
62.5°	4912.6	4958.5	6571.3	9461.7	12877.9	19759.8	32475.4	37416.2	37257.4	34021.2	29179.1
65°	3610.3	3575.0	4415.0	6253.7	8674.7	12186.2	27883.9	37070.4	37384.5	34765.8	30040.3
67.5°	3013.9	2964.5	3377.4	4330.3	6391.3	6920.7	20631.5	34822.3	35972.8	34681.1	30672.0
70°	2745.7	2703.3	2953.9	3215.1	4986.7	4633.8	10400.5	30273.2	32044.8	33717.7	30569.6
72.5°	2325.7	2251.6	2593.9	2855.1	3878.6	3553.9	4298.5	23253.7	25413.5	30629.6	29129.7
75°	1803.4	1754.0	2046.9	2512.8	2915.1	2773.9	2717.5	14120.2	16477.7	23687.8	25484.1
77.5°	1429.3	1362.3	1630.5	1958.7	2622.2	2092.8	1979.9	6080.8	8417.1	15122.5	19068.1
80°	1076.4	1016.4	1238.7	1549.3	2015.2	1577.5	1281.1	2481.0	3172.7	7661.8	9588.7
82.5°	765.8	712.9	864.6	1136.4	1355.2	1415.2	787.0	1390.5	1563.4	2953.9	2142.2
85°	490.6	458.8	578.8	712.9	861.1	910.5	480.0	727.0	797.6	1217.6	892.9
87.5°	268.2	218.8	310.6	331.7	398.8	363.5	229.4	264.7	285.9	441.1	377.6
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°	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9	7495.9
2.5°	7524.2	7534.8	7570.1	7580.6	7605.4	7637.1	7658.3	7679.5	7679.5	7700.6	7700.6
5°	7626.5	7651.2	7725.3	7764.2	7827.7	7891.2	7930.0	7975.9	8004.1	8018.3	8025.3
7.5°	7824.2	7863.0	7968.9	8035.9	8145.3	8233.5	8293.5	8357.1	8371.2	8410.0	8395.9
10°	8092.4	8138.3	8258.2	8385.3	8515.9	8625.3	8681.7	8727.6	8745.3	8752.3	8734.7
12.5°	8399.4	8466.5	8621.8	8777.0	8914.7	9010.0	9024.1	9013.5	8964.1	8921.7	8921.7
15°	8777.0	8837.0	9010.0	9179.4	9313.5	9331.1	9242.9	9186.4	9126.4	9115.8	9115.8
17.5°	9228.8	9260.5	9419.3	9585.2	9595.8	9535.8	9405.2	9352.3	9295.8	9257.0	9260.5
20°	9754.6	9744.0	9857.0	9927.5	9853.4	9669.9	9472.3	9384.1	9327.6	9281.7	9285.2
22.5°	10382.8	10301.6	10287.5	10269.9	10072.2	9687.6	9419.3	9306.4	9218.2	9154.7	9175.8
25°	11296.9	10986.3	10771.0	10651.0	10206.3	9592.3	9249.9	8999.4	8833.5	8724.1	8766.4
27.5°	12440.3	11918.0	11374.5	11081.6	10206.3	9398.2	8840.6	8434.7	8163.0	8050.0	8106.5
30°	13530.8	12983.8	12182.7	11600.4	10181.6	9080.5	8180.6	7615.9	7298.3	7185.4	7252.4
32.5°	14462.5	13866.1	13040.3	12168.6	10121.6	8565.3	7361.8	6737.2	6430.1	6296.0	6363.1
35°	15327.2	14691.9	13901.4	12793.2	9962.8	7810.0	6461.9	5985.5	5643.1	5427.9	5498.4
37.5°	16213.0	15457.7	14716.6	13357.9	9677.0	6927.8	5770.2	5364.3	4962.0	4672.6	4750.3
40°	17176.5	16273.0	15588.3	13693.2	9207.6	6087.8	5233.8	4863.2	4436.2	4129.1	4189.1
42.5°	18302.3	17250.6	16558.8	13866.1	8565.3	5491.4	4884.4	4520.9	4118.5	3868.0	3917.4
45°	19477.5	18327.0	17444.7	13862.6	7848.9	5212.6	4771.4	4411.5	3966.8	3705.6	3748.0
47.5°	20709.1	19452.8	18210.5	13636.7	7227.7	5251.4	4707.9	4175.0	3684.4	3430.3	3465.6
50°	21944.4	20684.4	18951.6	13213.2	6963.0	5166.7	4471.5	3843.3	3264.5	3035.1	3049.2
52.5°	23169.0	21993.8	19590.4	12609.7	6694.8	4852.6	4167.9	3412.7	3091.5	2932.7	2932.7
55°	24400.7	23289.0	20285.6	11730.9	6024.3	4485.6	3659.7	3250.4	2953.9	2809.2	2795.1
57.5°	25635.9	24785.3	20945.6	10852.2	5180.8	4033.8	3380.9	3052.7	2816.3	2692.8	2671.6
60°	26920.5	26497.0	21626.7	10044.0	4347.9	3455.1	3176.2	2893.9	2653.9	2516.3	2505.7
62.5°	28243.9	28381.6	22159.6	9002.9	3582.1	3102.1	2992.7	2703.3	2470.4	2339.8	2336.3
65°	29577.9	30199.1	22509.0	7559.5	2904.5	2766.9	2795.1	2495.1	2258.7	2145.7	2142.2
67.5°	30583.8	31508.4	22410.2	5720.8	2382.2	2449.2	2548.1	2276.3	2054.0	1965.7	1969.3
70°	30696.7	31353.1	21436.2	3917.4	1994.0	2138.7	2272.8	2061.0	1831.6	1768.1	1771.6
72.5°	29193.3	29235.6	18722.2	2558.6	1686.9	1877.5	1983.4	1842.2	1619.9	1556.4	1552.8
75°	25251.2	24178.3	13746.1	1686.9	1411.7	1612.8	1711.6	1612.8	1397.5	1411.7	1362.3
77.5°	19131.6	17123.5	8346.5	1199.9	1178.7	1355.2	1489.3	1418.7	1235.2	1387.0	1221.1
80°	9857.0	9264.1	3723.3	896.4	931.7	1083.5	1224.6	1132.9	977.6	931.7	850.5
82.5°	2258.7	2625.7	1468.1	642.3	674.1	779.9	935.2	850.5	702.3	592.9	585.8
85°	790.5	864.6	649.4	402.3	395.3	487.0	635.2	568.2	476.4	381.1	402.3
87.5°	250.6	328.2	243.5	162.3	169.4	218.8	292.9	268.2	222.3	144.7	151.8
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)