

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: P459434

Luminaire Tested: **GALN-SA8D-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57706 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

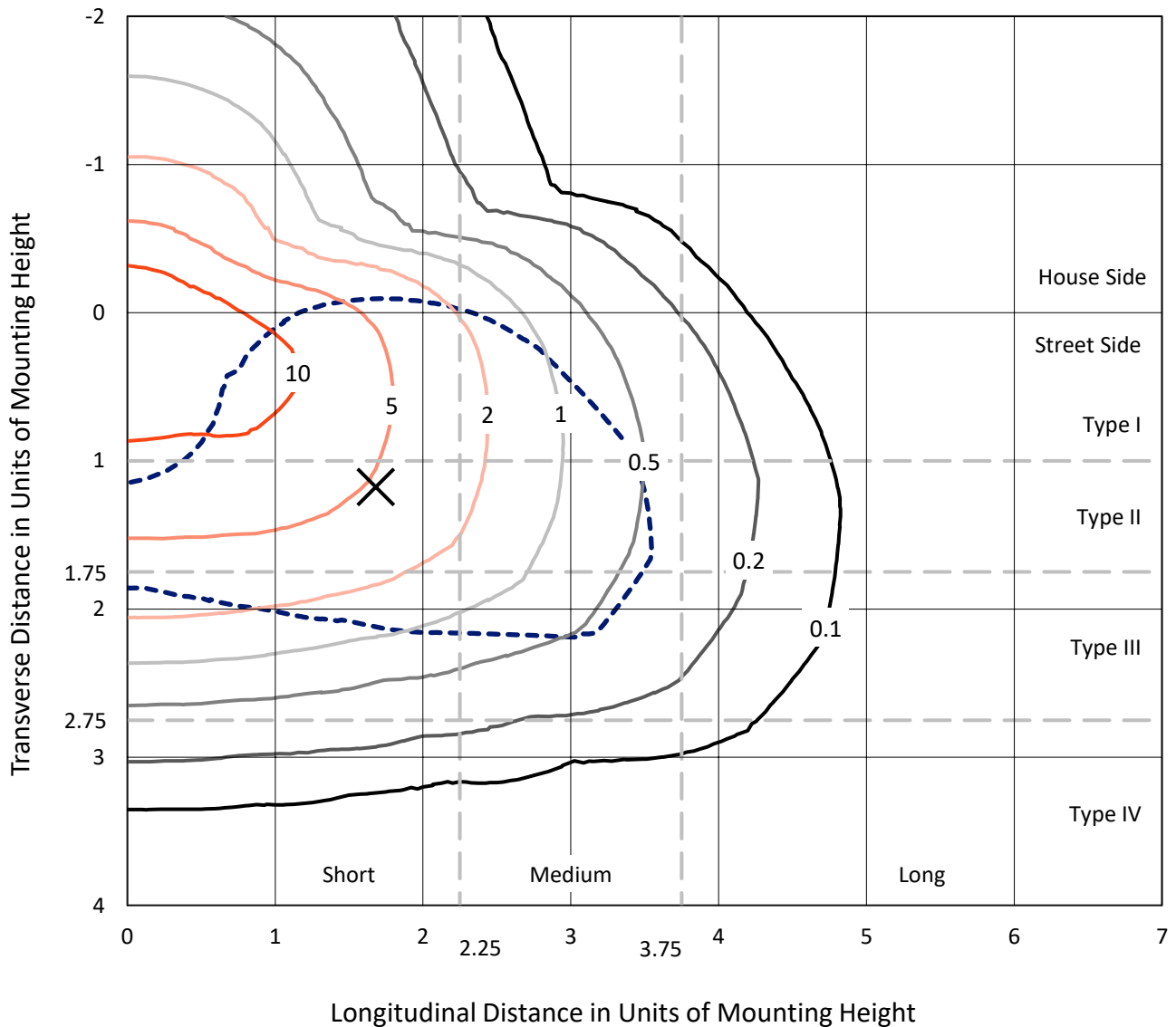
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

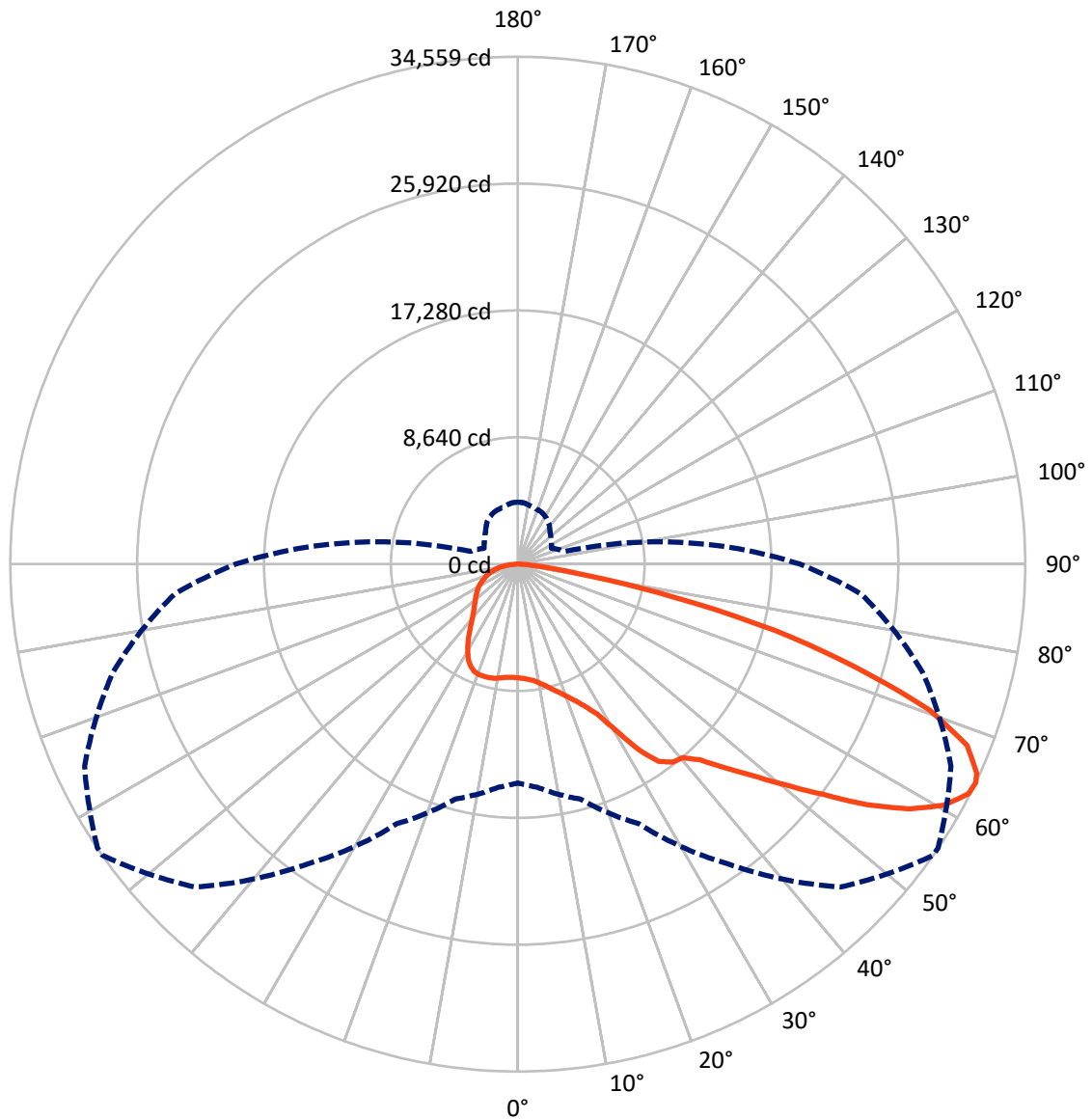
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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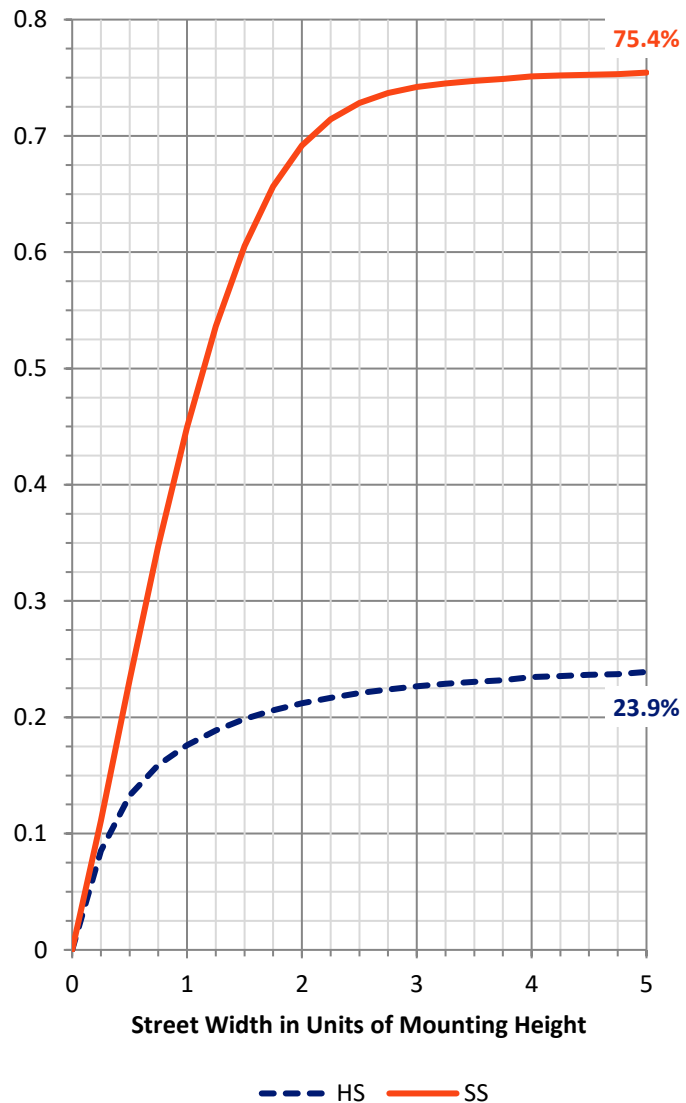
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14017.9	0.0	14017.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	43688.1	0.0	43688.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	57706.0	0.0	57706.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.1	1.3
10°-20°	2376.4	4.1
20°-30°	4230.6	7.3
30°-40°	6509.1	11.3
40°-50°	9227.2	16.0
50°-60°	13356.2	23.1
60°-70°	13822.2	24.0
70°-80°	6473.0	11.2
80°-90°	958.2	1.7
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°	57706.0	100.0
0°-180°	57706.0	100.0



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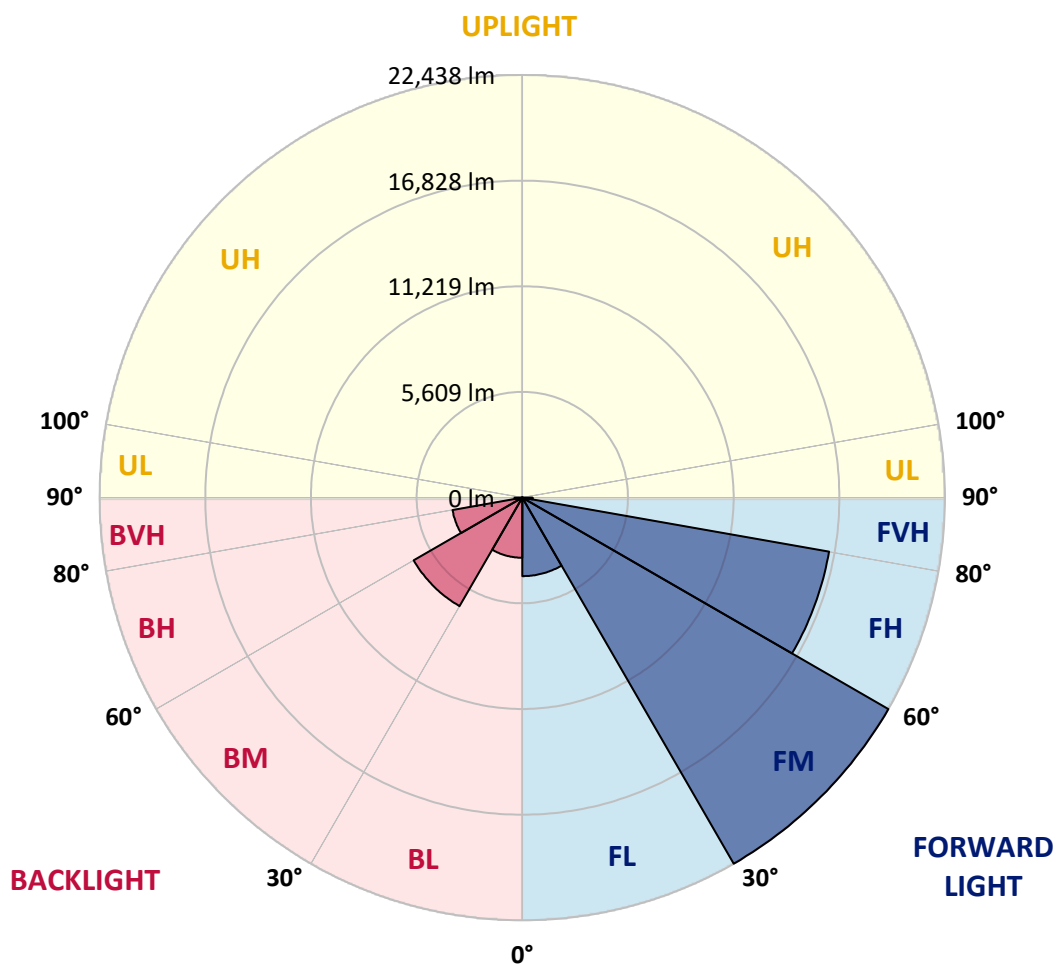
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4167.3	7.2			
FM	(30°-60°)	22437.7	38.9			
FH	(60°-80°)	16534.5	28.7			G5
FVH	(80°-90°)	548.7	1.0			G4/750
BL	(0°-30°)	3192.7	5.5	B4/5000		
BM	(30°-60°)	6654.9	11.5	B4/8500		
BH	(60°-80°)	3760.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	409.6	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4
2.5°	7829.3	7826.0	7835.7	7826.0	7832.5	7810.0	7800.3	7806.7	7797.1	7781.0	7752.1
5°	7925.8	7922.5	7925.8	7912.9	7919.3	7906.5	7883.9	7890.4	7874.3	7838.9	7797.1
7.5°	8089.8	8076.9	8076.9	8073.7	8060.8	8041.5	8025.5	8019.0	8002.9	7957.9	7893.6
10°	8302.1	8302.1	8305.3	8279.6	8295.7	8260.3	8244.2	8241.0	8186.3	8128.4	8038.3
12.5°	8581.9	8598.0	8588.4	8575.5	8569.1	8556.2	8501.5	8514.4	8453.3	8353.6	8244.2
15°	8929.3	8955.1	8939.0	8932.6	8916.5	8868.2	8845.7	8836.1	8755.6	8610.9	8466.1
17.5°	9389.3	9357.1	9344.3	9328.2	9260.6	9225.3	9186.7	9180.2	9109.5	8939.0	8713.8
20°	9791.4	9836.4	9810.7	9794.6	9727.1	9659.5	9630.6	9620.9	9559.8	9373.2	9013.0
22.5°	10270.7	10280.3	10290.0	10251.4	10219.2	10167.7	10116.3	10100.2	10077.7	9884.7	9444.0
25°	10782.1	10820.7	10788.5	10749.9	10711.3	10708.1	10756.4	10749.9	10740.3	10553.7	10016.6
27.5°	11615.2	11650.6	11660.2	11618.4	11470.5	11483.3	11592.7	11628.1	11776.0	11467.2	10753.2
30°	12084.8	12120.2	12200.6	12358.3	12593.1	12798.9	13062.7	13143.1	13284.6	12702.4	11628.1
32.5°	12374.3	12387.2	12532.0	12824.7	13529.1	14297.9	15015.2	15044.1	15134.2	14317.2	12429.0
35°	12831.1	12840.7	12956.5	13278.2	14104.9	15385.1	16494.8	16530.2	16456.2	14819.0	12802.1
37.5°	13394.0	13419.7	13493.7	13760.7	14748.2	16295.4	17109.2	17083.5	16427.3	15217.8	13461.6
40°	14214.2	14214.2	14127.4	14487.7	15426.9	16816.5	17324.7	17279.7	17106.0	16372.6	14465.1
42.5°	14938.0	14925.1	15131.0	15375.4	16276.1	17620.6	18228.6	18302.6	18588.8	17823.3	15607.0
45°	15880.5	15938.4	16054.1	16498.0	17720.4	18994.1	19779.0	19849.8	20255.1	19531.3	16941.9
47.5°	16832.6	16851.9	17215.3	17807.2	19508.8	20856.6	21499.9	21615.7	21985.6	21528.8	18379.8
50°	17508.1	17691.4	18273.6	19206.4	21351.9	23127.5	23629.3	23767.6	24420.6	23703.3	20055.6
52.5°	18222.2	18402.3	19113.2	20534.9	23468.5	25449.9	26067.5	26160.8	26839.5	25903.4	21770.1
55°	18833.3	19000.6	19807.9	21712.2	25154.0	27820.5	28939.9	28830.6	29155.4	27598.6	23092.1
57.5°	18933.0	19068.1	20084.6	22464.9	26421.3	29853.4	31458.5	31522.9	31146.5	28865.9	24182.5
60°	18161.0	18437.7	19605.3	22384.5	26990.7	31268.8	33337.0	33382.1	32314.2	29515.7	24616.8
62.5°	16794.0	16765.0	18177.1	21091.4	26192.9	31590.4	34443.6	34395.3	32770.9	29203.7	24195.4
64°	14905.8	15253.2	16572.0	19502.4	24906.3	31095.1	34559.4	34533.6	32552.2	28553.9	23478.1
65°	13754.3	13735.0	15037.7	18202.9	23626.1	30348.8	34353.5	34318.1	32095.4	27971.7	22921.6
67.5°	9929.7	9974.7	11261.4	14047.0	19206.4	27431.3	33012.2	32880.3	30294.1	26041.8	20805.1
70°	6015.1	6040.8	7050.8	9318.5	13786.4	22175.4	29756.9	29763.4	27537.5	23159.7	17707.5
72.5°	3168.4	3235.9	3641.2	5291.3	8372.9	15558.8	24140.7	24713.3	23642.2	19766.1	13989.1
75°	1762.7	1772.4	2058.6	2608.7	4271.7	8707.4	18145.0	18309.0	18717.5	15909.4	10344.6
77.5°	1344.5	1363.8	1453.9	1685.5	2325.6	4036.9	10981.5	11805.0	13191.4	11216.4	5902.5
80°	1090.4	1109.7	1186.9	1325.2	1547.2	1913.9	5101.6	5545.5	7060.5	4979.3	2303.1
82.5°	849.2	836.3	936.0	1026.1	1125.8	1132.3	2094.0	2316.0	2875.7	2142.3	997.2
85°	630.5	630.5	710.9	691.6	727.0	662.6	923.2	1019.7	1151.5	910.3	463.2
87.5°	250.9	276.6	466.4	418.2	324.9	260.5	341.0	360.3	398.9	357.0	193.0
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°	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4	7742.4
2.5°	7755.3	7764.9	7742.4	7726.3	7719.9	7710.2	7700.6	7703.8	7716.7	7729.5	7726.3
5°	7793.9	7797.1	7758.5	7739.2	7726.3	7713.5	7713.5	7723.1	7748.8	7768.1	7768.1
7.5°	7890.4	7890.4	7835.7	7800.3	7781.0	7758.5	7752.1	7755.3	7774.6	7800.3	7803.5
10°	8041.5	8028.7	7957.9	7903.2	7867.9	7813.2	7764.9	7739.2	7748.8	7764.9	7764.9
12.5°	8224.9	8189.5	8099.4	8025.5	7938.6	7835.7	7736.0	7684.5	7681.3	7697.4	7690.9
15°	8421.1	8382.5	8257.1	8122.0	7970.8	7819.6	7700.6	7626.6	7568.7	7552.6	7588.0
17.5°	8649.5	8569.1	8395.4	8208.8	7983.6	7787.4	7600.9	7449.7	7346.8	7317.8	7327.5
20°	8926.1	8820.0	8585.2	8292.4	7974.0	7671.6	7382.1	7179.5	7012.2	6960.8	6967.2
22.5°	9308.9	9125.5	8781.4	8334.3	7893.6	7452.9	7050.8	6787.1	6584.4	6504.0	6552.3
25°	9743.1	9543.7	8967.9	8324.6	7684.5	7102.3	6658.4	6314.2	6130.9	6011.9	6037.6
27.5°	10341.4	9987.6	9167.4	8237.8	7385.4	6674.5	6159.8	5834.9	5667.7	5606.6	5635.5
30°	11107.0	10563.4	9382.9	8002.9	6912.5	6134.1	5658.0	5445.7	5346.0	5268.8	5294.6
32.5°	11660.2	10968.7	9431.1	7607.3	6401.1	5642.0	5317.1	5159.5	5050.1	4976.1	4992.2
35°	12055.9	11312.9	9408.6	7121.6	5867.1	5236.7	5046.9	4918.2	4741.3	4580.5	4551.5
37.5°	12586.6	11743.9	9244.6	6590.9	5339.6	4963.2	4828.1	4590.1	4336.0	4120.5	4110.8
40°	13400.4	12248.9	8894.0	5966.8	4889.3	4760.6	4596.5	4287.8	4014.3	3840.6	3827.8
42.5°	14240.0	12715.3	8417.9	5310.6	4519.4	4548.3	4348.9	4043.3	3876.0	3763.4	3750.6
45°	15266.1	13220.3	7903.2	4741.3	4245.9	4348.9	4133.4	3956.4	3856.7	3782.7	3763.4
47.5°	16375.8	13738.2	7324.2	4229.9	4014.3	4165.5	4043.3	3962.9	3908.2	3856.7	3834.2
50°	17572.4	14317.2	6780.6	3818.1	3805.3	3975.7	4033.6	4004.7	3972.5	3956.4	3937.1
52.5°	18884.8	14909.0	6323.9	3528.6	3621.9	3840.6	4036.9	4059.4	4059.4	4049.7	4036.9
55°	19772.6	15320.8	5860.7	3293.8	3435.3	3731.3	4030.4	4117.3	4149.4	4136.6	4123.7
57.5°	20428.8	15545.9	5278.5	3091.2	3277.7	3625.1	3995.0	4123.7	4155.9	4172.0	4165.5
60°	20563.8	15336.8	4516.1	2878.9	3107.3	3470.7	3866.4	4027.2	4069.0	4168.7	4178.4
62.5°	19955.9	14693.5	3757.0	2669.8	2898.2	3235.9	3692.7	3917.8	4001.5	4155.9	4172.0
64°	19209.7	13973.0	3335.6	2537.9	2763.1	3104.0	3605.8	3888.9	3998.3	4204.1	4217.0
65°	18662.8	13448.7	3071.9	2454.3	2676.2	3017.2	3557.6	3898.5	4027.2	4278.1	4297.4
67.5°	16649.2	11644.2	2541.1	2258.1	2470.4	2869.2	3567.2	3979.0	4020.8	4307.1	4303.8
70°	13776.8	9270.3	2129.4	2077.9	2270.9	2750.2	3528.6	3850.3	3853.5	4043.3	3998.3
72.5°	10315.7	6851.4	1846.3	1891.4	2049.0	2467.1	3332.4	3676.6	3621.9	3647.6	3602.6
75°	7086.2	4532.2	1589.0	1691.9	1817.4	2180.9	3055.8	3338.9	3252.0	3219.8	3187.7
77.5°	3782.7	2505.7	1322.0	1495.7	1579.4	1884.9	2666.6	2940.0	2849.9	2724.5	2682.7
80°	1531.1	1180.5	1064.7	1238.4	1286.6	1518.2	2219.5	2389.9	2322.4	2103.7	2032.9
82.5°	768.8	707.7	836.3	974.6	977.9	1084.0	1650.1	1811.0	1659.8	1392.8	1331.7
85°	402.1	414.9	575.8	685.1	604.7	585.4	990.7	1096.9	1006.8	874.9	788.1
87.5°	144.7	167.3	302.4	299.1	212.3	112.6	218.7	106.1	57.9	35.4	45.0
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)