

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: P651011

Luminaire Tested: **GALN-SA7C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33704.8 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

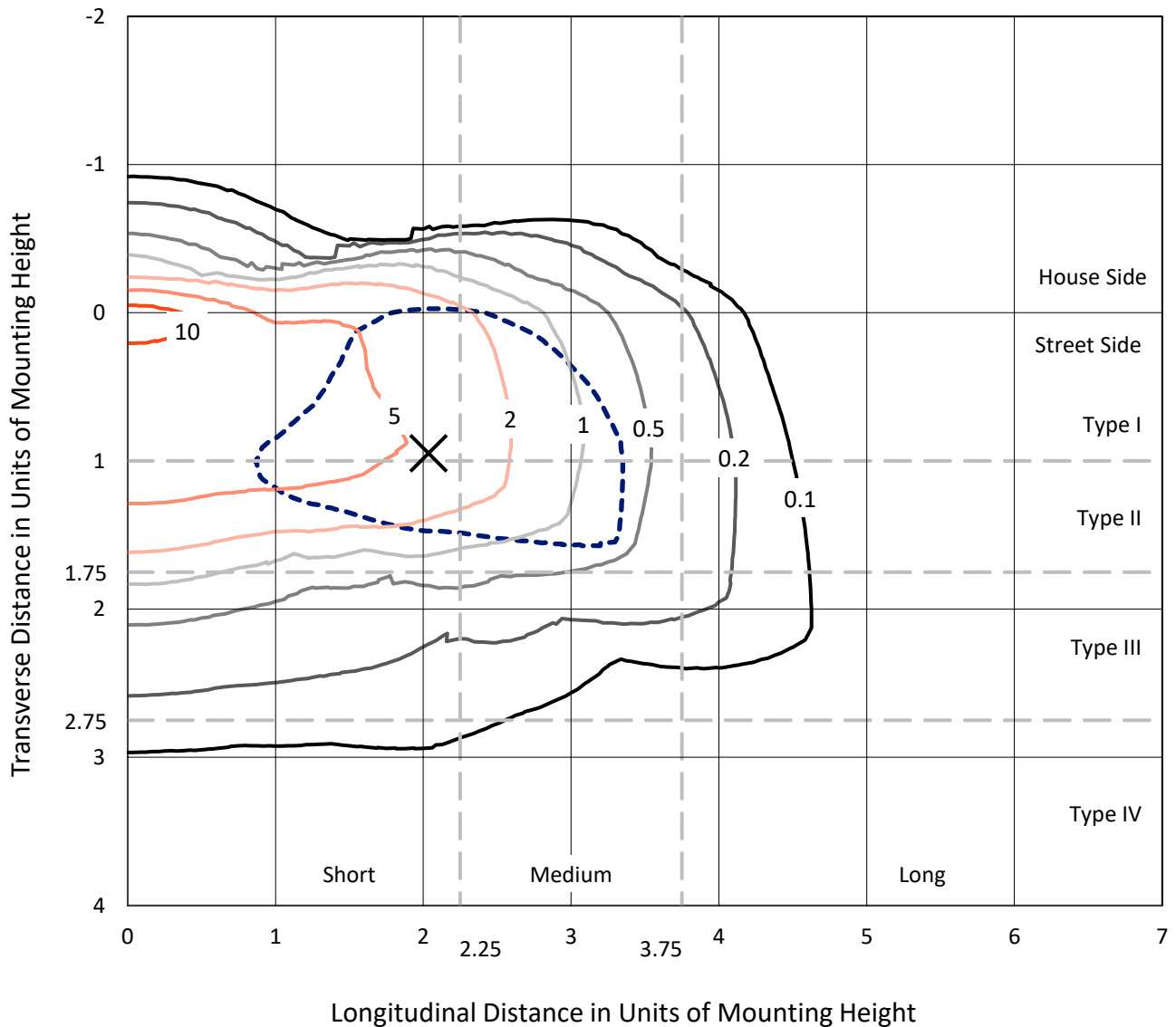
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

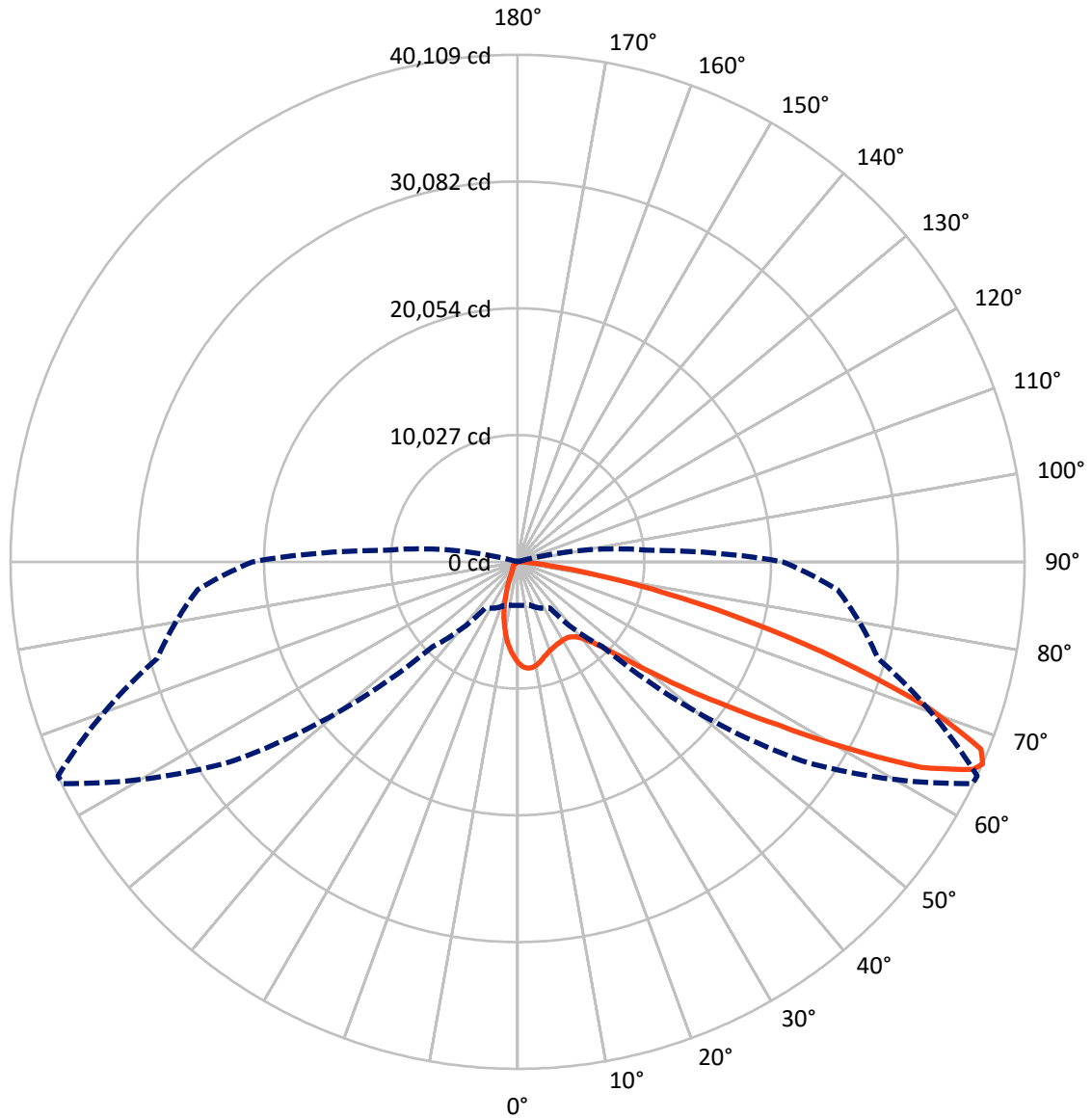
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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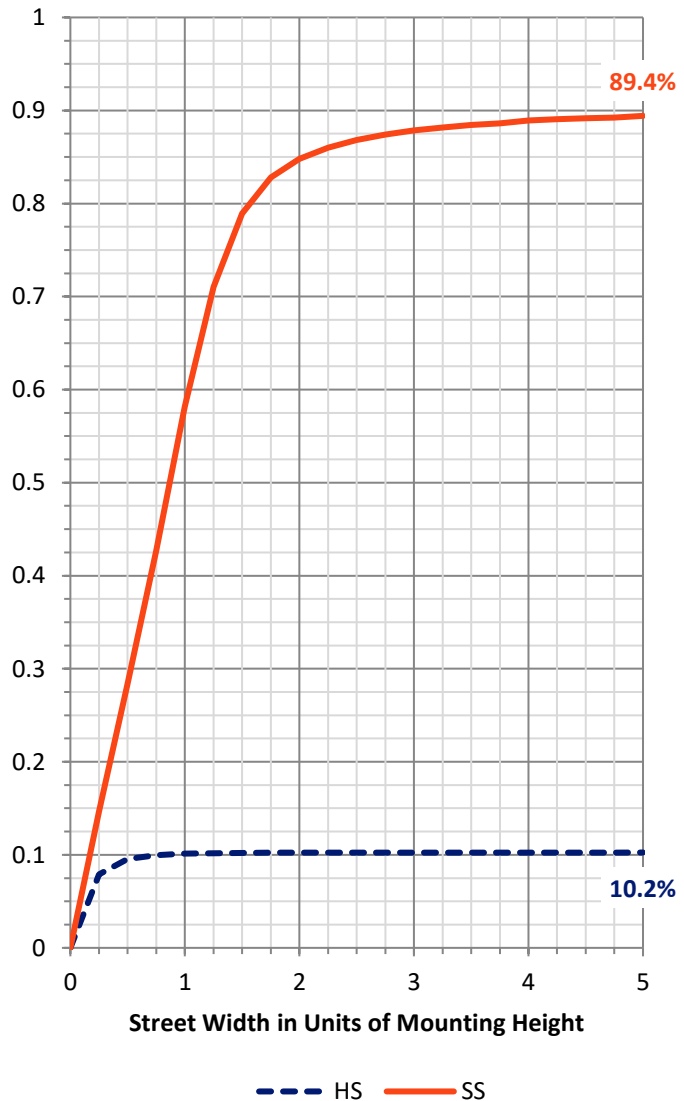
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3485.5	0.0	3485.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30219.2	0.0	30219.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	33704.8	0.0	33704.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.7	1.9
10°-20°	1424.3	4.2
20°-30°	2040.3	6.1
30°-40°	2980.0	8.8
40°-50°	4996.9	14.8
50°-60°	8339.0	24.7
60°-70°	8851.6	26.3
70°-80°	4008.9	11.9
80°-90°	410.2	1.2
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°	33704.8	100.0
0°-180°	33704.8	100.0

Coefficient of Utilization

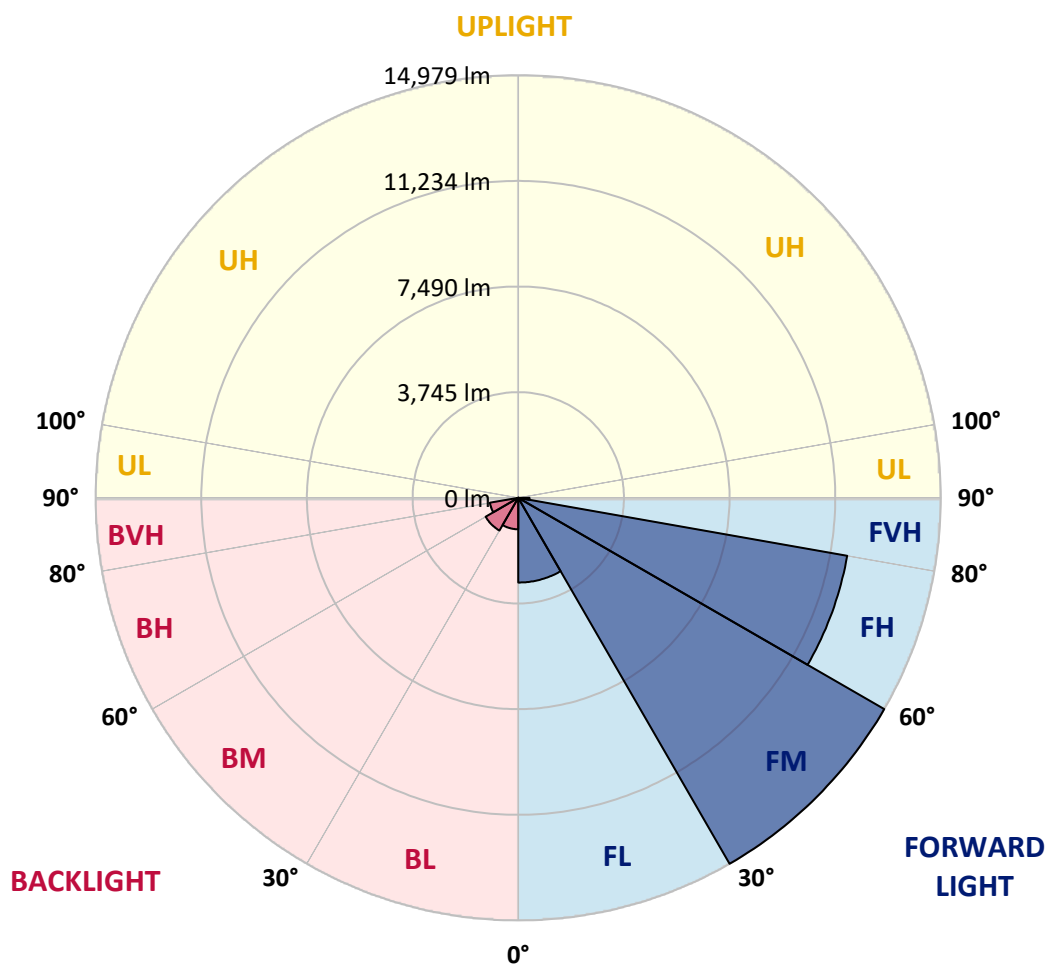


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3003.2	8.9			
FM (30°-60°)	14979.2	44.4			
FH (60°-80°)	11839.7	35.1			G4/12000
FVH (80°-90°)	397.1	1.2			G3/500
BL (0°-30°)	1115.0	3.3	B3/2500		
BM (30°-60°)	1336.7	4.0	B2/2500		
BH (60°-80°)	1020.7	3.0	B3/2500		G3/2500
BVH (80°-90°)	13.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6
2.5°	8422.9	8432.0	8443.4	8459.3	8470.7	8436.6	8388.7	8334.1	8322.7	8206.6	8065.5
5°	7972.2	7985.8	8086.0	8140.6	8263.5	8375.1	8445.7	8454.7	8450.2	8341.0	8115.6
7.5°	7330.2	7368.9	7466.8	7562.4	7792.3	8004.0	8254.4	8429.7	8441.1	8411.5	8131.5
10°	6808.9	6834.0	6884.0	7073.0	7264.1	7587.4	7938.0	8268.1	8295.4	8413.8	8117.8
12.5°	6401.4	6437.9	6499.2	6645.0	6874.9	7180.0	7578.3	8022.2	8079.2	8370.6	8079.2
15°	6116.8	6135.0	6196.5	6340.0	6563.0	6845.3	7248.2	7765.0	7815.1	8313.6	8072.3
17.5°	5982.5	6003.1	6046.3	6160.1	6344.5	6606.3	7000.1	7557.8	7621.6	8277.2	8097.3
20°	6019.0	6037.2	6039.5	6098.6	6223.8	6444.7	6818.0	7364.3	7446.3	8254.4	8138.4
22.5°	6226.1	6228.4	6201.0	6173.8	6217.0	6376.4	6706.5	7241.4	7325.6	8249.9	8186.1
25°	6535.7	6542.6	6497.0	6401.4	6314.9	6396.8	6681.4	7161.7	7236.9	8238.5	8215.7
27.5°	6963.6	6961.4	6947.8	6788.4	6542.6	6487.9	6701.9	7118.5	7182.2	8206.6	8227.1
30°	7562.4	7544.2	7514.6	7334.8	6959.1	6708.7	6788.4	7091.1	7150.4	8161.1	8197.6
32.5°	8152.0	8220.3	8215.7	8045.0	7576.1	7102.6	6968.3	7127.6	7170.9	8131.5	8154.3
35°	8839.5	8837.2	9012.5	8948.7	8400.2	7605.7	7275.6	7248.2	7282.4	8152.0	8133.8
37.5°	9476.9	9536.1	9809.3	9875.3	9374.5	8315.9	7710.4	7507.8	7519.1	8290.8	8183.9
40°	10271.4	10385.2	10792.7	11013.5	10571.9	9369.9	8352.3	7983.5	7985.8	8632.4	8372.8
42.5°	11295.8	11475.6	11855.8	12224.6	11987.8	10617.4	9315.3	8737.1	8732.5	9233.3	8805.4
45°	12541.0	12666.2	13098.7	13683.7	13533.5	12358.9	10717.5	9904.9	9845.7	10219.0	9572.5
47.5°	13615.5	13786.3	14225.6	14892.6	15575.5	14485.1	12393.1	11509.8	11471.1	11787.5	10888.3
50°	14084.5	14234.7	14696.8	15632.4	17287.4	17276.1	14888.1	13852.3	13786.3	13957.0	12923.5
52.5°	13570.0	13711.1	14177.7	15343.3	18093.3	20677.1	18503.0	16791.2	16711.5	16492.9	15354.7
55°	11808.0	11924.1	12613.8	13952.4	17783.7	22944.4	23483.9	20422.1	20112.5	19263.4	18106.9
57.5°	9401.8	9342.6	9770.6	11325.4	15967.1	23704.8	28596.9	24945.4	24392.3	21658.2	20435.8
60°	6515.2	6697.3	6870.4	7894.7	12006.0	22386.7	31777.1	30632.0	29903.5	24014.3	22666.7
62.5°	4789.7	4910.3	5024.1	5497.6	7548.7	17874.8	32339.3	36473.4	35826.9	26516.1	24795.2
65°	3788.0	3797.1	3842.7	4309.4	4974.1	11623.6	29637.2	39767.4	39601.3	28924.7	25658.0
66°	3451.1	3453.4	3524.0	4024.8	4464.1	9465.5	27472.3	40017.8	40108.9	29502.9	25405.3
67.5°	3016.3	3007.2	3109.7	3617.3	4065.7	6824.8	23597.8	39002.6	39542.1	29946.8	24497.0
70°	2337.9	2326.5	2451.8	3034.5	3744.8	4552.9	15684.8	33489.0	34358.6	29038.5	21674.2
72.5°	1557.1	1566.2	1780.2	2394.8	3574.0	4008.9	9435.9	25475.8	26705.1	23980.2	17050.7
75°	908.3	924.3	1167.8	1780.2	3102.8	3822.2	5340.6	18166.1	18951.5	16559.0	10621.9
77.5°	475.8	482.6	653.4	1174.6	2378.9	3549.0	3558.1	11605.4	11974.2	8047.3	4204.6
80°	252.7	245.8	350.6	708.0	1636.8	3116.5	2886.6	6144.2	6387.7	2390.3	1063.1
82.5°	95.6	104.7	186.7	464.4	967.5	2237.7	2485.9	2715.8	2631.6	525.9	446.2
85°	18.2	22.8	79.6	275.4	487.2	935.6	1832.5	1331.7	1233.8	198.1	257.3
87.5°	2.3	4.5	22.8	66.0	70.6	316.5	541.8	368.8	318.7	72.8	107.0
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°	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6	7992.6
2.5°	7997.2	7935.8	7730.8	7528.2	7321.1	7134.5	7007.0	6799.7	6747.4	6672.3	6629.0
5°	7981.3	7837.9	7444.0	7013.8	6613.1	6180.6	5850.5	5531.8	5361.0	5274.6	5242.7
7.5°	7935.8	7708.1	7093.4	6419.6	5777.7	5131.1	4568.8	4140.9	3865.4	3676.5	3549.0
10°	7844.7	7530.5	6686.0	5759.4	4789.7	3936.0	3223.5	2681.7	2262.8	2130.8	2135.3
12.5°	7751.3	7332.4	6230.6	5026.4	3824.4	2747.7	1991.9	1563.9	1363.6	1297.6	1284.0
15°	7664.8	7143.5	5784.5	4316.2	2847.9	1780.2	1284.0	1133.7	1079.0	1067.6	1065.4
17.5°	7619.3	6968.3	5308.7	3503.4	1987.4	1208.8	1029.0	988.0	972.0	960.7	956.1
20°	7580.6	6815.7	4853.4	2743.1	1359.1	990.3	922.0	883.3	856.0	844.5	837.7
22.5°	7553.3	6658.6	4382.2	2123.9	1040.3	878.7	817.3	767.2	728.5	714.8	705.7
25°	7512.3	6485.6	3906.4	1552.6	876.4	780.8	710.2	651.1	601.0	575.9	571.4
27.5°	7453.1	6289.8	3385.1	1149.6	783.1	694.3	607.8	535.0	484.9	457.6	459.9
30°	7357.5	6085.0	2863.8	912.8	708.0	605.5	512.2	441.6	393.8	373.3	371.0
32.5°	7243.7	5836.9	2385.7	783.1	639.7	525.9	428.0	366.5	330.1	314.1	311.8
35°	7136.7	5586.4	1898.6	703.4	569.1	453.0	359.7	307.3	280.0	266.3	268.6
37.5°	7077.5	5363.3	1479.7	639.7	512.2	389.3	309.6	264.1	239.0	227.7	225.4
40°	7116.2	5181.2	1176.9	582.8	448.4	334.6	266.3	227.7	202.6	186.7	186.7
42.5°	7298.3	5101.5	949.3	528.1	389.3	289.1	232.2	195.8	168.5	152.6	154.8
45°	7853.8	5185.8	794.5	478.0	334.6	250.4	200.3	161.6	136.6	125.2	123.0
47.5°	8775.8	5502.2	687.5	425.7	286.9	214.0	168.5	134.3	109.2	100.2	97.9
50°	10387.4	6155.5	607.8	373.3	243.6	182.1	138.8	107.0	86.5	77.4	77.4
52.5°	12604.7	7580.6	550.9	314.1	204.9	154.8	113.8	86.5	68.3	61.5	59.2
55°	14922.2	9083.1	521.3	264.1	170.7	127.5	91.1	68.3	52.4	45.5	43.2
57.5°	17150.8	10262.3	487.2	214.0	136.6	97.9	70.6	52.4	36.4	31.9	29.6
60°	19288.4	11216.1	414.3	170.7	107.0	70.6	52.4	36.4	25.1	20.5	20.5
62.5°	21200.7	11771.6	325.6	136.6	81.9	50.1	34.1	27.3	18.2	13.6	13.6
65°	21423.7	11049.9	245.8	104.7	59.2	31.9	20.5	20.5	13.6	9.1	9.1
66°	20975.3	10437.6	216.3	95.6	52.4	27.3	18.2	15.9	11.4	6.8	6.8
67.5°	19973.7	9392.6	186.7	81.9	43.2	20.5	13.6	13.6	9.1	4.5	4.5
70°	17257.8	7671.7	147.9	61.5	31.9	15.9	9.1	9.1	6.8	4.5	4.5
72.5°	13153.4	5727.5	120.7	45.5	22.8	11.4	6.8	6.8	6.8	4.5	4.5
75°	7933.5	3084.6	93.4	34.1	20.5	9.1	4.5	6.8	9.1	6.8	4.5
77.5°	2923.0	1049.5	72.8	27.3	15.9	9.1	4.5	4.5	9.1	6.8	6.8
80°	717.1	273.2	52.4	22.8	15.9	9.1	4.5	4.5	9.1	9.1	9.1
82.5°	332.4	116.1	36.4	20.5	15.9	9.1	4.5	4.5	6.8	9.1	9.1
85°	191.2	54.7	29.6	22.8	15.9	9.1	4.5	4.5	6.8	9.1	9.1
87.5°	77.4	27.3	27.3	22.8	18.2	11.4	4.5	4.5	4.5	6.8	6.8
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)