

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: P647634

Luminaire Tested: **GALN-SA8D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35220.9 lumens
Efficiency: N/A
Efficacy: 71.4 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

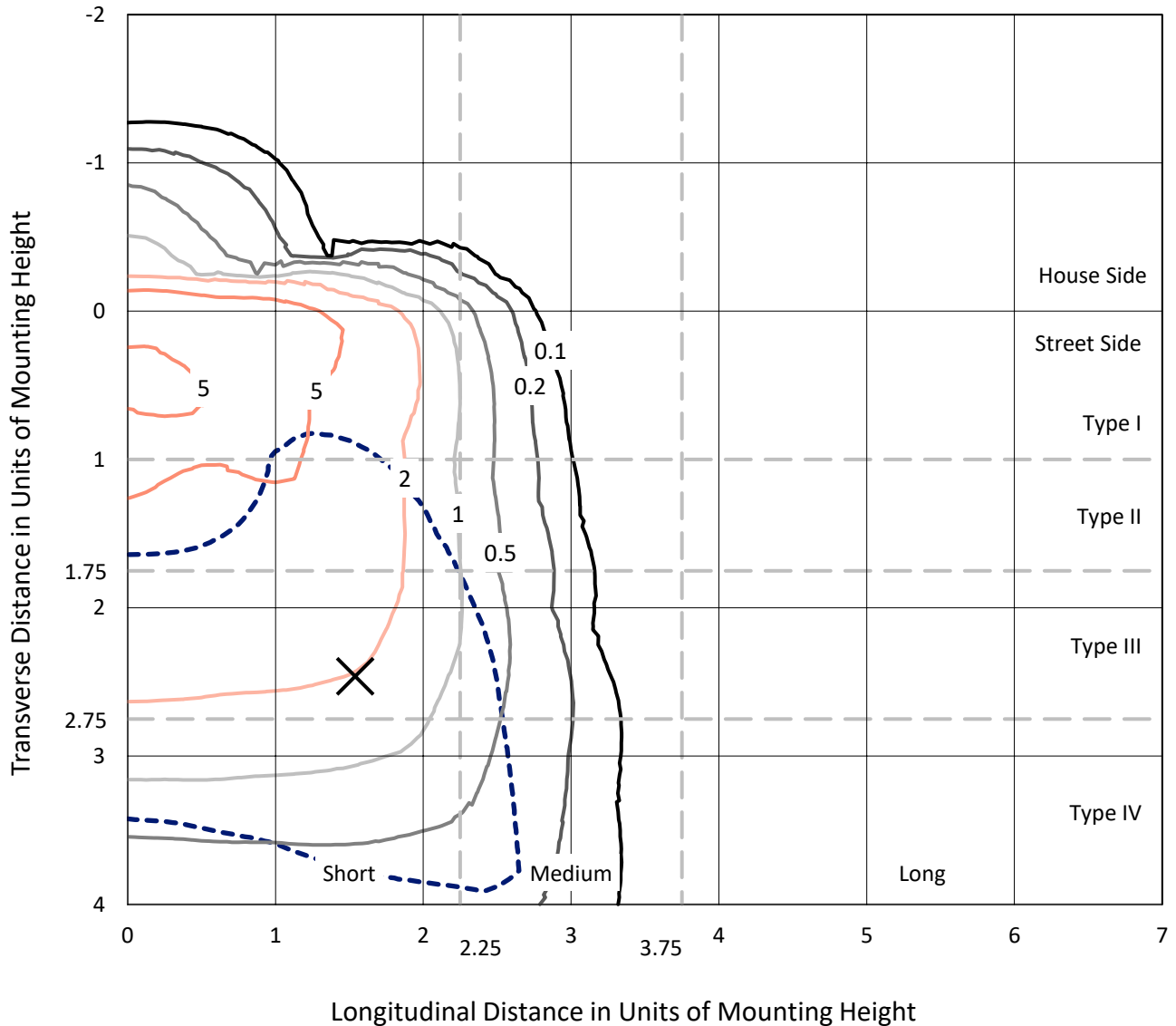
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

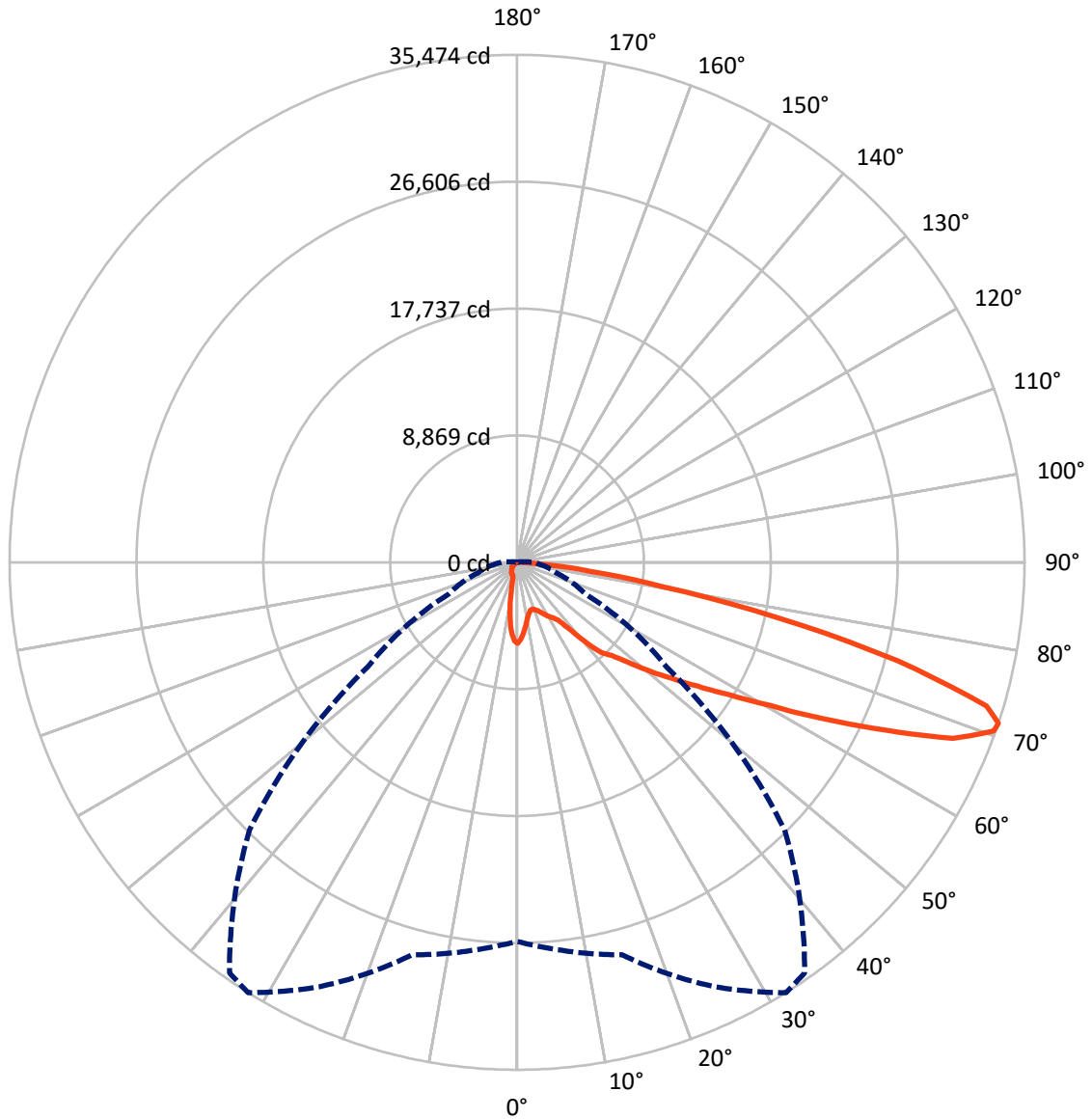
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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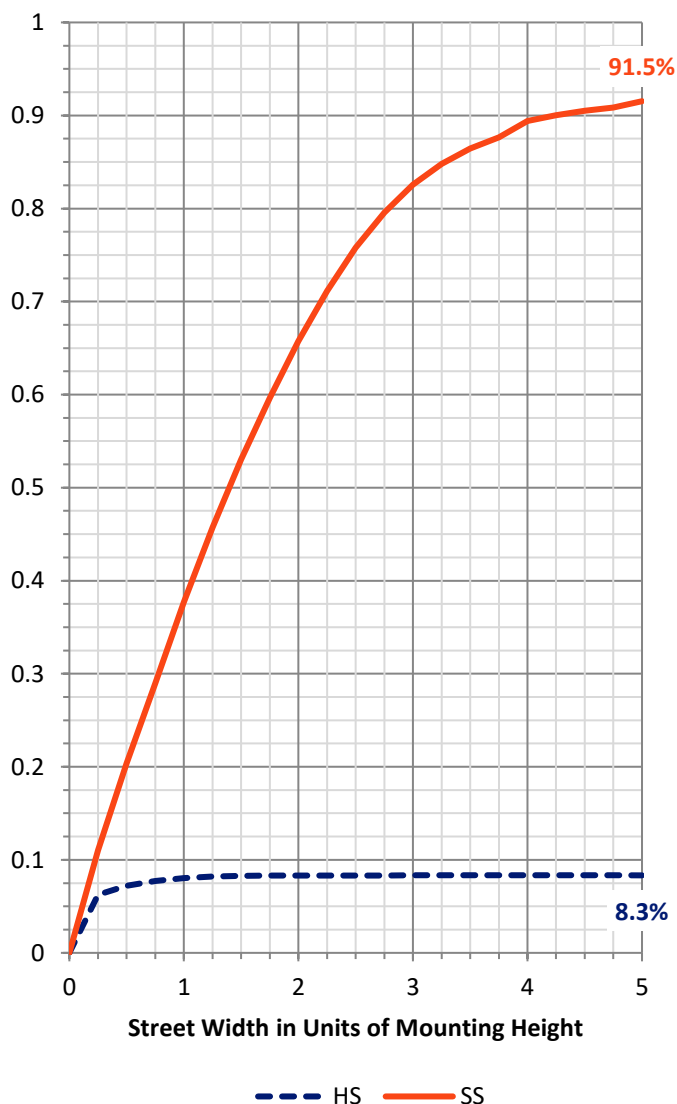
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.1	0.0	2950.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	32270.8	0.0	32270.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	35220.9	0.0	35220.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	1.3
10°-20°	999.6	2.8
20°-30°	1555.0	4.4
30°-40°	2590.7	7.4
40°-50°	4819.1	13.7
50°-60°	7737.2	22.0
60°-70°	10406.9	29.5
70°-80°	6174.6	17.5
80°-90°	477.3	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°	35220.9	100.0
0°-180°	35220.9	100.0

Coefficient of Utilization

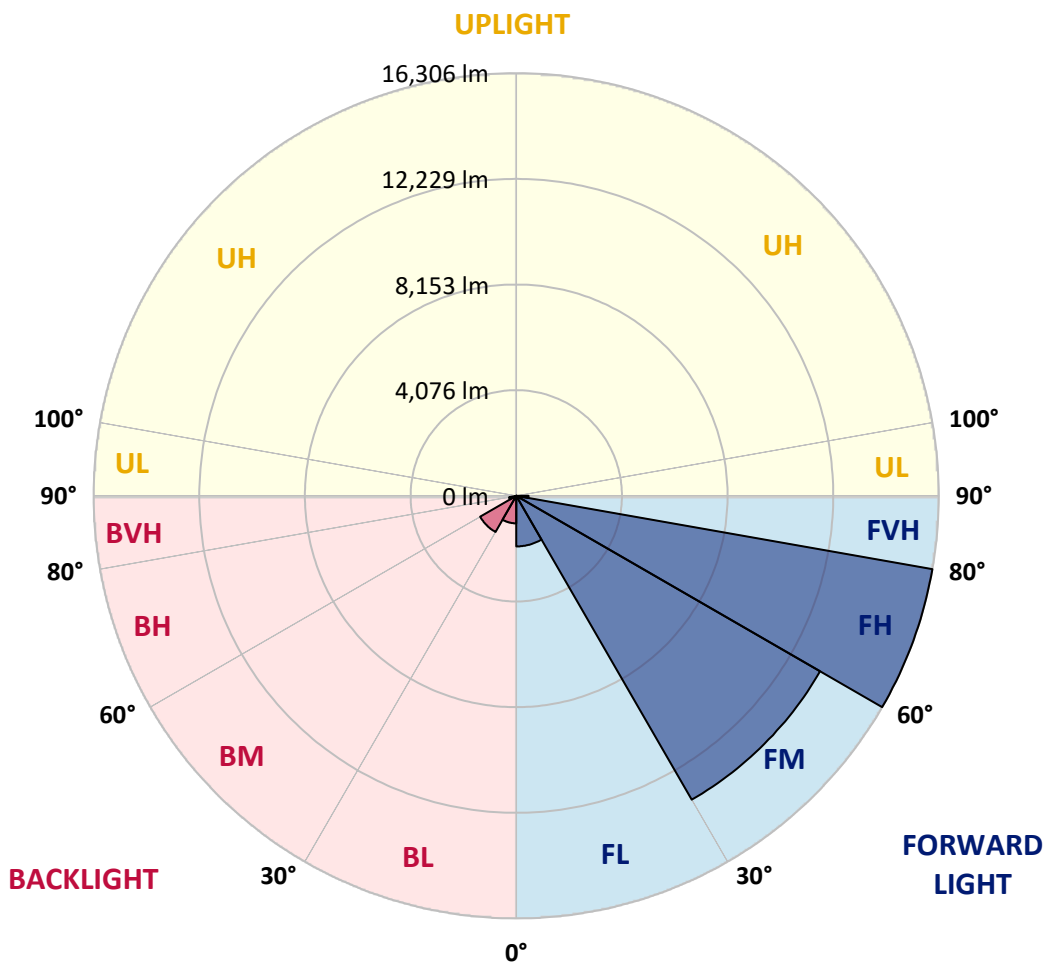


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.2	5.5			
FM (30°-60°)	13537.6	38.4			
FH (60°-80°)	16305.6	46.3			G5
FVH (80°-90°)	475.4	1.3			G3/500
BL (0°-30°)	1063.0	3.0	B3/2500		
BM (30°-60°)	1609.4	4.6	B2/2500		
BH (60°-80°)	275.9	0.8	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1
2.5°	5253.1	5307.2	5299.1	5318.0	5363.9	5382.9	5434.3	5491.0	5569.5	5623.5	5658.7
5°	4704.3	4744.8	4750.2	4844.9	4890.9	4942.2	5093.6	5258.5	5442.4	5588.3	5685.7
7.5°	4117.6	4139.3	4182.5	4306.9	4423.1	4474.5	4704.3	4990.8	5280.2	5553.2	5729.0
10°	3633.7	3658.0	3736.4	3868.9	3977.0	4044.6	4363.7	4723.2	5128.7	5534.3	5791.1
12.5°	3357.9	3371.4	3401.1	3520.1	3658.0	3731.0	4074.3	4485.3	5007.1	5542.4	5896.6
15°	3338.9	3333.5	3298.4	3347.1	3471.4	3547.1	3882.4	4323.1	4898.9	5569.5	6021.0
17.5°	3439.0	3425.5	3341.7	3341.7	3444.4	3506.6	3801.3	4236.6	4844.9	5631.6	6196.7
20°	3593.1	3571.5	3433.6	3422.8	3522.8	3587.7	3849.9	4242.0	4855.7	5747.8	6431.9
22.5°	3787.8	3763.4	3555.3	3560.7	3668.8	3733.7	3990.6	4339.3	4923.3	5891.2	6683.3
25°	4041.9	4014.8	3768.8	3758.0	3871.5	3928.4	4198.7	4512.4	5017.9	6069.6	7013.2
27.5°	4379.9	4323.1	4028.4	4012.2	4133.8	4206.8	4450.2	4744.8	5185.5	6315.7	7456.6
30°	4658.3	4596.1	4315.0	4271.7	4401.5	4458.2	4709.7	5058.5	5515.4	6745.5	8070.3
32.5°	5023.3	4931.4	4601.5	4488.0	4625.9	4698.9	5085.5	5642.5	6004.7	7199.8	8800.3
35°	5845.3	5788.4	5385.6	4988.2	4980.0	5072.0	5639.7	6231.8	6507.6	7908.1	9795.2
37.5°	7021.3	6980.8	6553.6	6021.0	5866.9	5823.6	6312.9	6880.7	7310.6	8881.3	10952.4
40°	8386.6	8292.0	7899.9	7448.4	7248.4	7121.3	7107.8	7845.9	8359.5	10203.4	12158.2
42.5°	9365.3	9192.3	8716.4	8684.0	8640.7	8508.3	8124.3	9257.2	9714.1	11625.5	13447.8
45°	10392.7	10130.5	9422.1	9300.4	9284.2	9276.1	9660.0	10928.0	11190.2	13166.6	14772.5
47.5°	11190.2	10982.0	10400.8	10346.7	10414.3	10598.1	11690.4	12701.6	12647.5	14540.1	15883.7
50°	12252.8	12095.9	11449.8	11552.5	11901.3	12201.4	13980.4	14634.7	13845.2	15621.5	16692.2
52.5°	13507.2	13218.0	12617.7	12896.2	13431.6	13931.8	16411.0	16327.1	14686.0	16435.2	17295.0
55°	14594.1	14388.6	14183.2	14472.4	15272.7	15897.2	18606.3	17595.1	15297.1	17089.5	17559.9
57.5°	16432.6	16383.9	16173.0	16467.7	17438.3	18087.1	20571.8	18579.3	15689.0	17430.2	17249.0
60°	19152.4	19074.0	18682.0	19057.8	20323.1	21342.3	22383.2	19463.3	15778.3	17297.7	16354.1
62.5°	22423.8	22156.1	21820.9	22375.1	24110.8	24559.7	24089.2	19987.8	15445.8	16243.3	14196.7
65°	25478.9	25203.1	25211.2	26379.2	28269.0	28574.5	26079.1	19909.4	14472.4	13601.9	10471.1
67.5°	27817.5	27771.5	28101.4	30380.5	32851.6	32640.8	27858.0	18736.0	11587.7	8816.5	5564.1
70°	27936.4	28025.7	28971.9	32819.2	35328.1	34992.9	27706.6	15229.4	7224.0	4055.4	2192.6
71°	26498.1	27098.3	28406.8	32743.5	35474.1	35038.9	26430.6	12755.6	5299.1	2828.0	1581.6
72.5°	22580.6	22896.9	25724.9	30815.8	34319.7	33389.6	23194.3	8940.8	3393.1	1730.4	908.4
75°	12436.6	13215.2	17227.4	24175.8	27449.8	26633.3	15115.9	4247.4	1692.5	946.3	375.8
77.5°	5920.9	5769.5	8405.5	14377.8	18611.7	18568.5	7616.1	1887.1	986.8	640.7	189.3
80°	1692.5	1903.3	3217.3	6834.7	10333.3	10446.8	2925.3	911.1	684.0	500.2	97.3
82.5°	511.0	521.8	1181.5	3022.6	5139.5	4844.9	1097.7	465.0	492.0	397.5	56.8
85°	89.2	110.9	348.7	1065.2	1960.1	1487.0	275.8	221.7	324.4	262.2	32.4
87.5°	5.4	8.1	116.3	121.7	173.0	100.1	48.7	32.4	70.3	70.3	18.9
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°	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1	5664.1
2.5°	5683.0	5699.2	5688.4	5664.1	5623.5	5574.9	5510.0	5455.9	5409.9	5385.6	5415.3
5°	5718.2	5739.8	5685.7	5564.1	5380.2	5180.1	4953.0	4777.3	4639.4	4596.1	4579.9
7.5°	5772.2	5785.7	5639.7	5369.3	4980.0	4506.9	4093.3	3744.5	3474.2	3393.1	3274.1
10°	5842.5	5834.4	5558.6	5055.8	4371.7	3660.7	3020.0	2544.1	2184.5	2054.7	2043.9
12.5°	5950.6	5907.4	5455.9	4628.6	3647.2	2717.2	1925.0	1505.9	1278.8	1203.1	1186.9
15°	6085.9	5983.1	5293.7	4128.4	2792.8	1754.6	1186.9	1059.8	1030.1	1024.6	1019.2
17.5°	6245.4	6083.1	5080.1	3514.7	1962.8	1138.2	992.2	989.6	992.2	986.8	984.2
20°	6461.6	6188.6	4825.9	2787.4	1297.7	959.8	946.3	946.3	949.0	946.3	946.3
22.5°	6691.4	6312.9	4512.4	2127.7	978.7	911.1	908.4	913.8	919.2	916.5	916.5
25°	6975.4	6475.2	4098.7	1457.2	875.9	870.5	873.3	884.1	894.9	897.6	894.9
27.5°	7386.3	6675.2	3655.3	1003.0	803.0	808.4	835.4	862.5	878.7	881.3	881.3
30°	7848.6	6896.9	3076.7	813.8	743.5	743.5	776.0	827.3	862.5	867.9	870.5
32.5°	8443.4	7153.8	2436.0	732.7	686.7	681.3	711.0	773.2	838.1	857.1	857.1
35°	9178.8	7456.6	1811.4	681.3	646.1	632.7	648.9	700.2	784.0	838.1	843.5
37.5°	10041.2	7743.2	1324.8	635.3	608.3	589.4	600.2	640.7	708.4	789.4	811.1
40°	10838.8	7997.3	989.6	597.5	570.5	556.9	565.1	584.0	640.7	716.4	730.0
42.5°	11709.4	8194.6	786.8	556.9	532.6	527.2	527.2	535.3	573.2	616.5	619.1
45°	12577.3	8265.0	659.7	508.2	492.0	497.4	494.8	489.4	505.6	500.2	500.2
47.5°	13196.4	8181.2	546.1	462.3	462.3	470.4	456.9	438.0	429.9	397.5	400.1
50°	13620.8	7875.6	448.8	408.3	429.9	440.7	413.7	383.9	354.2	319.0	310.9
52.5°	13796.5	7332.2	367.7	337.9	381.2	394.7	362.3	327.1	281.2	251.4	243.4
55°	13683.0	6661.7	305.5	275.8	321.7	337.9	305.5	265.0	213.6	181.1	175.7
57.5°	13182.8	5861.5	259.6	219.0	256.8	267.6	246.0	202.8	151.4	118.9	118.9
60°	12317.7	5034.1	210.9	173.0	192.0	208.2	186.5	146.0	102.7	73.0	67.6
62.5°	10563.0	4087.9	170.3	135.1	135.1	148.7	129.7	105.5	64.9	37.8	35.2
65°	7626.9	2803.6	135.1	100.1	97.3	97.3	81.1	70.3	37.8	16.2	10.8
67.5°	4144.7	1581.6	108.1	75.7	67.6	64.9	51.4	40.6	16.2	2.7	0.0
70°	1630.3	608.3	83.8	51.4	43.2	40.6	27.0	18.9	10.8	0.0	0.0
71°	1105.8	419.1	73.0	43.2	35.2	29.8	21.6	16.2	8.1	0.0	0.0
72.5°	632.7	259.6	56.8	32.4	27.0	21.6	16.2	10.8	8.1	0.0	0.0
75°	275.8	132.5	35.2	24.4	18.9	13.5	10.8	8.1	2.7	0.0	0.0
77.5°	140.6	73.0	24.4	18.9	10.8	8.1	5.4	2.7	0.0	0.0	0.0
80°	78.4	37.8	16.2	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0
82.5°	43.2	21.6	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.0	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	5.4	0.0	0.0	0.0	0.0	2.7	2.7	0.0	0.0	0.0
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)