

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: P651457

Luminaire Tested: **GALN-SA6D-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31734.3 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

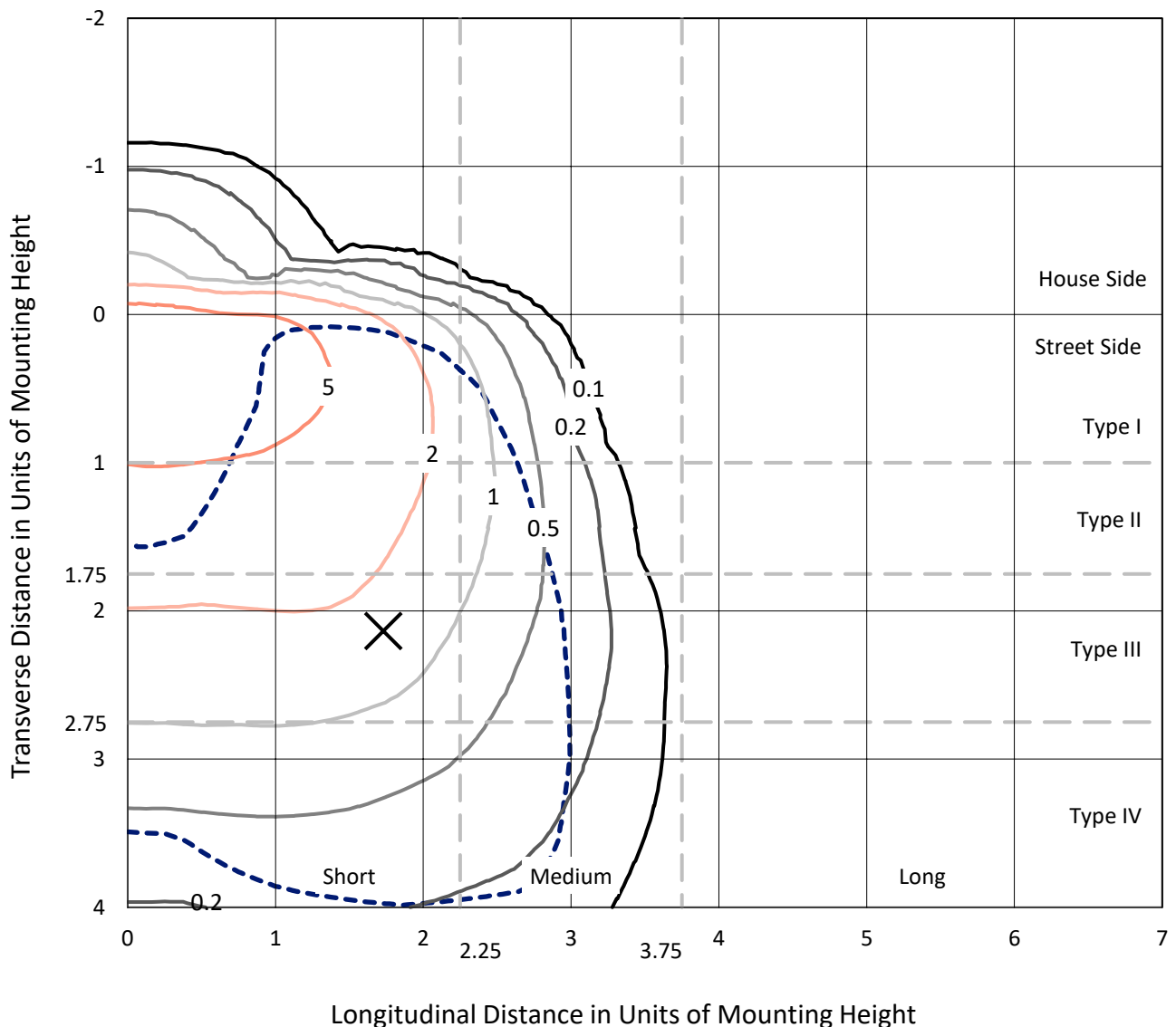
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

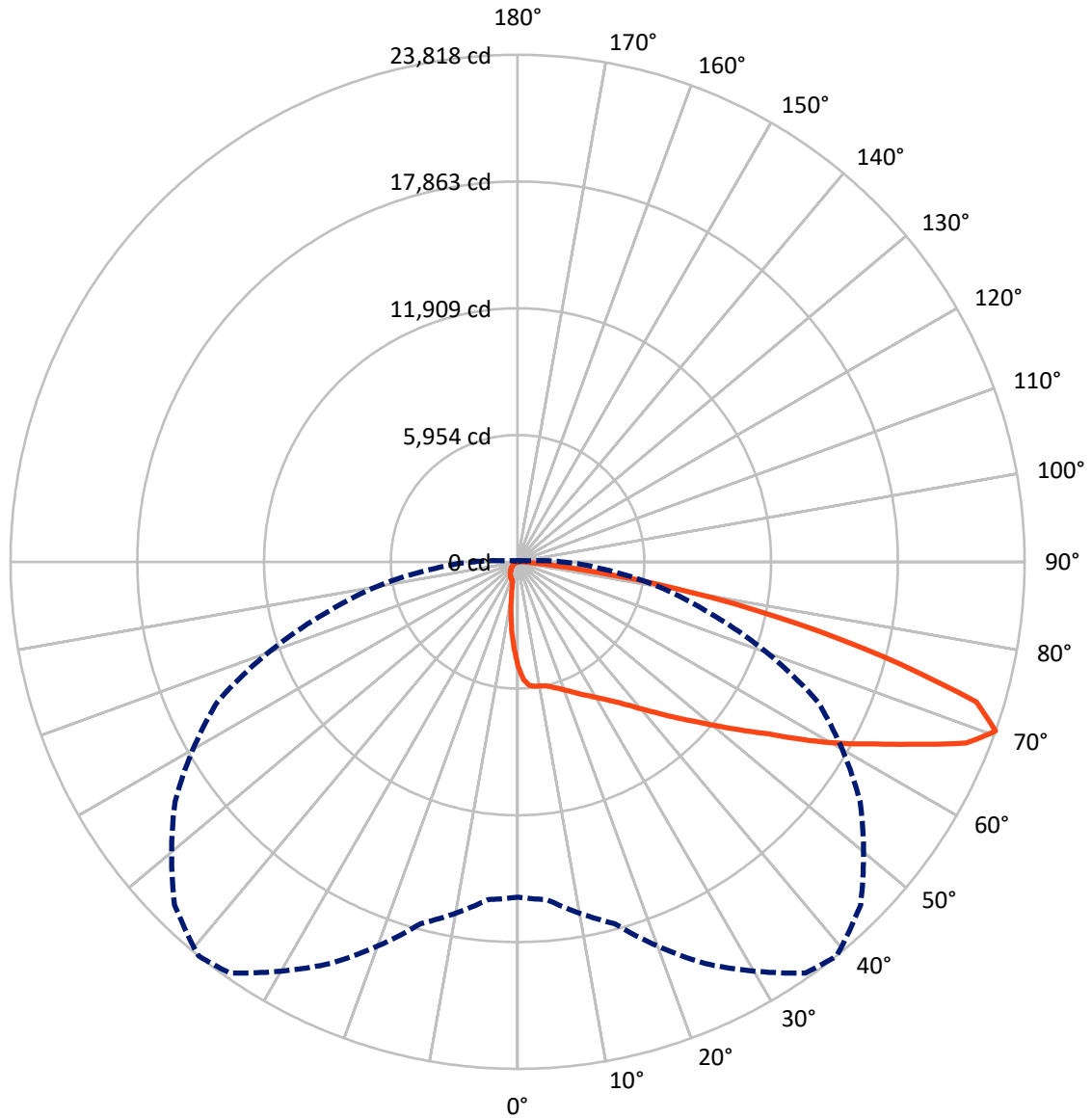
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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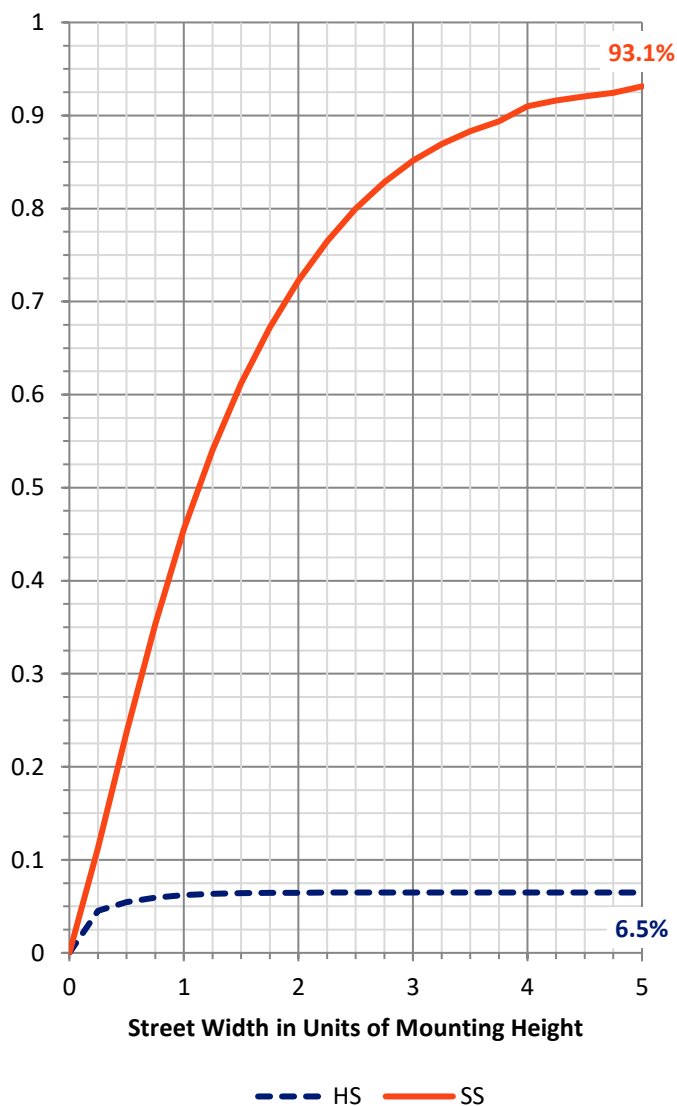
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.2	0.0	2069.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29665.1	0.0	29665.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	31734.3	0.0	31734.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	1.3
10°-20°	1097.5	3.5
20°-30°	1838.7	5.8
30°-40°	2851.6	9.0
40°-50°	4518.9	14.2
50°-60°	6624.0	20.9
60°-70°	8490.4	26.8
70°-80°	5335.1	16.8
80°-90°	555.8	1.8
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°	31734.3	100.0
0°-180°	31734.3	100.0

Coefficient of Utilization

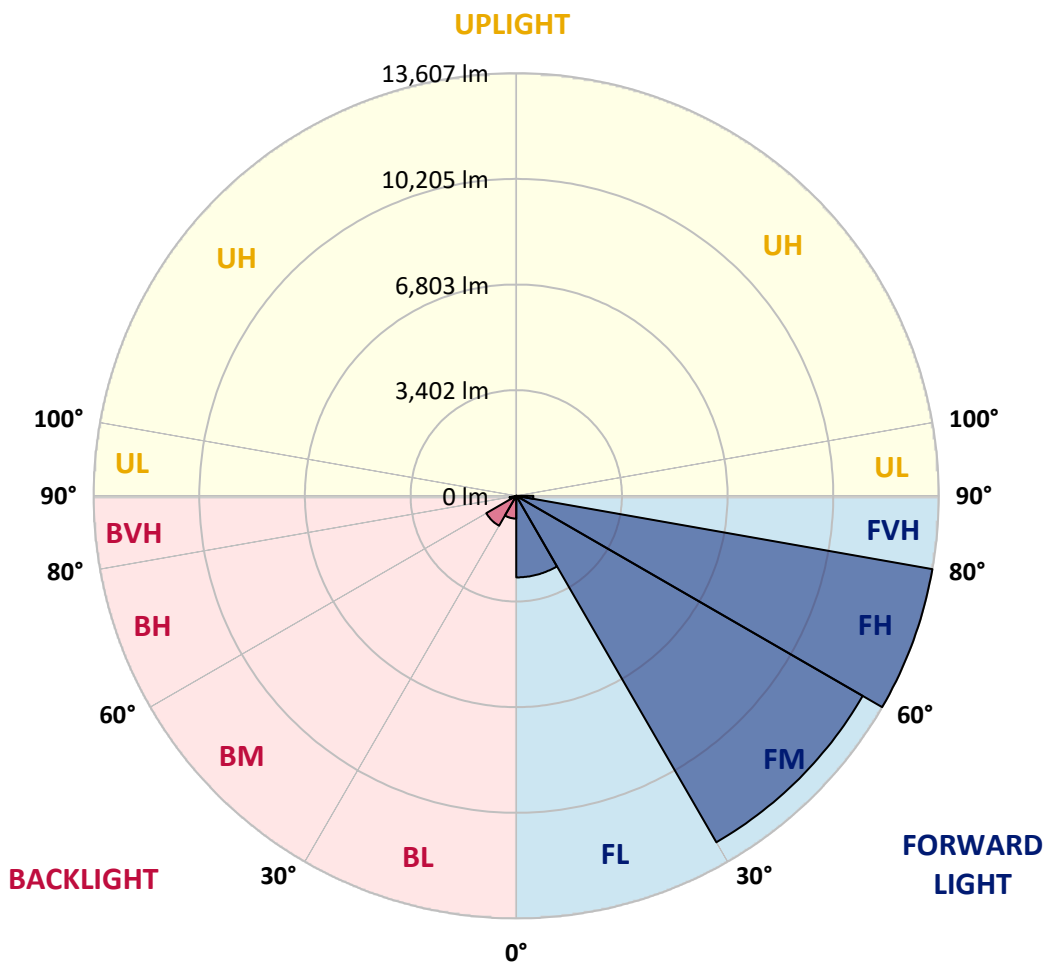


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2625.9	8.3			
FM (30°-60°)	12880.9	40.6			
FH (60°-80°)	13606.6	42.9			G5
FVH (80°-90°)	551.7	1.7			G4/750
BL (0°-30°)	732.7	2.3	B2/1000		
BM (30°-60°)	1113.6	3.5	B2/2500		
BH (60°-80°)	218.8	0.7	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6
2.5°	5721.5	5702.2	5676.7	5646.8	5561.5	5546.6	5495.4	5386.7	5256.6	5149.9	5002.9
5°	5992.3	6003.0	5983.8	5930.5	5868.6	5832.3	5768.4	5599.9	5431.4	5216.1	4975.1
7.5°	6054.1	6075.5	6052.0	6000.8	5941.1	5902.7	5851.5	5706.5	5510.3	5265.1	4934.6
10°	6047.7	6073.4	6058.4	6011.5	5962.4	5926.2	5870.8	5755.6	5597.8	5339.8	4947.4
12.5°	6037.0	6071.2	6069.1	6045.6	6005.1	5977.3	5943.3	5840.9	5693.7	5448.5	5017.7
15°	6007.2	6049.9	6088.3	6107.4	6109.6	6109.6	6066.9	5958.1	5817.4	5591.4	5109.4
17.5°	6020.0	6069.1	6165.0	6220.5	6258.9	6254.6	6209.8	6092.5	5936.9	5738.6	5205.4
20°	6098.9	6165.0	6299.3	6410.3	6448.6	6435.8	6376.1	6239.6	6062.7	5864.4	5299.2
22.5°	6293.0	6352.7	6521.1	6651.2	6679.0	6644.8	6559.5	6374.0	6214.1	6000.8	5412.3
25°	6583.0	6653.4	6809.1	6907.1	6907.1	6888.0	6768.5	6551.0	6384.7	6190.6	5559.4
27.5°	6934.9	6994.6	7148.1	7235.5	7184.3	7128.9	7009.5	6747.2	6587.2	6429.4	5736.4
30°	7291.0	7329.4	7491.5	7529.8	7476.5	7406.1	7278.2	7015.9	6875.2	6753.6	5992.3
32.5°	7627.9	7711.0	7845.4	7836.9	7764.4	7730.3	7613.0	7333.6	7254.7	7241.9	6350.6
35°	7964.9	8028.9	8148.2	8178.1	8114.1	8107.7	8022.4	7815.6	7817.7	7900.9	6909.2
37.5°	8254.8	8312.4	8453.1	8519.3	8532.1	8564.1	8529.9	8393.5	8587.5	8815.7	7649.2
40°	8498.0	8579.0	8758.1	8873.3	9005.5	9122.7	9129.2	9159.1	9549.3	9941.6	8615.3
42.5°	8687.8	8800.8	9060.9	9274.2	9577.0	9726.2	9845.7	10009.9	10666.7	11253.2	9754.0
45°	8935.1	9065.2	9389.3	9724.1	10197.5	10442.8	10609.1	11048.4	11980.3	12780.0	10922.6
47.5°	9344.6	9412.8	9743.3	10231.7	10854.4	11204.1	11528.3	12193.6	13389.9	14106.4	11895.0
50°	9871.3	9916.1	10165.6	10843.7	11649.8	12110.4	12701.1	13483.8	14852.8	15206.8	12445.2
52.5°	10453.5	10468.3	10656.1	11517.6	12541.2	13121.2	13782.3	14748.3	16044.9	15991.5	12809.9
55°	11129.5	11108.1	11268.1	12249.0	13596.8	14259.9	15029.8	16042.7	17079.1	16548.1	13018.8
57.5°	11903.5	11846.0	12001.7	13219.3	14948.8	15742.0	16524.6	17160.1	17880.9	17015.1	13119.1
60°	12713.9	12598.8	12784.3	14309.0	16541.7	17294.5	17944.9	18115.5	18725.4	17386.2	12946.4
62.5°	13360.0	13362.1	13707.6	15469.1	18179.5	18838.4	19183.9	19337.4	19452.6	17305.2	12037.9
65°	14368.7	14402.8	14955.2	17079.1	20075.3	20646.7	20883.5	20384.5	19484.5	16298.6	10673.1
67.5°	15409.4	15518.1	16528.9	19296.9	22265.3	22725.9	22421.0	20587.0	18614.5	14001.9	8092.8
70°	15748.4	15927.5	17593.0	20823.7	23578.9	23817.8	22785.6	19642.3	15560.8	9361.6	4073.0
72.5°	14430.6	14720.5	16981.0	20267.2	22740.9	22534.0	20386.6	16473.5	9892.6	3554.8	1243.3
75°	10176.3	10304.2	14112.8	16812.5	18290.3	17703.9	15507.5	10619.8	4068.8	998.0	426.5
77.5°	5254.5	5192.6	8393.5	11155.0	13044.4	12436.7	10154.9	5497.5	1541.8	415.9	264.4
80°	2716.8	2761.6	3631.6	5845.1	7962.7	7327.2	5414.4	2548.3	821.0	230.3	202.6
82.5°	1522.6	1428.8	2087.7	2552.6	3723.4	2919.4	2077.0	1804.1	358.3	138.6	191.9
85°	277.2	290.0	1145.1	1379.7	1292.3	821.0	669.6	1204.8	104.5	76.8	134.3
87.5°	4.3	4.3	221.8	396.6	251.6	115.1	211.1	172.7	21.4	29.9	23.5
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°	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6
2.5°	4928.2	4847.2	4695.7	4546.4	4356.6	4201.0	4096.5	3987.8	3876.8	3885.4	3911.0
5°	4842.9	4702.1	4403.6	4088.0	3785.2	3512.2	3243.5	3002.5	2904.5	2814.9	2819.1
7.5°	4757.6	4559.2	4122.1	3627.4	3168.9	2704.0	2367.1	2089.8	1942.7	1831.8	1799.8
10°	4719.2	4456.9	3864.1	3183.8	2533.4	2025.9	1592.9	1367.0	1192.0	1136.6	1151.6
12.5°	4736.3	4405.7	3631.6	2782.9	2008.8	1411.7	1108.9	993.7	955.4	949.0	944.7
15°	4768.2	4369.5	3403.4	2339.3	1475.7	1049.1	931.9	910.6	906.3	902.1	904.2
17.5°	4810.9	4337.5	3160.3	1923.5	1132.3	916.9	882.9	872.2	870.0	870.0	870.0
20°	4853.6	4301.2	2889.5	1552.5	944.7	865.8	844.4	838.1	836.0	836.0	833.8
22.5°	4902.6	4269.3	2614.4	1219.8	870.0	829.6	810.4	806.1	803.9	801.8	801.8
25°	4973.0	4228.7	2322.3	998.0	823.2	795.4	776.2	772.0	769.9	761.3	763.5
27.5°	5066.8	4198.9	2021.6	861.5	780.5	752.8	740.0	733.6	729.3	722.9	725.0
30°	5194.8	4173.3	1701.8	786.9	731.4	708.0	695.2	691.0	686.7	680.3	680.3
32.5°	5416.5	4184.0	1364.8	727.2	686.7	658.9	646.1	641.9	637.6	631.3	631.3
35°	5749.2	4245.8	1091.9	676.0	633.4	605.6	592.8	592.8	586.4	577.9	575.7
37.5°	6293.0	4403.6	876.5	627.0	582.1	556.6	541.7	537.4	531.0	518.2	516.0
40°	6934.9	4648.8	737.8	577.9	535.3	509.6	496.9	484.1	467.0	454.2	452.1
42.5°	7740.9	4900.4	639.7	528.8	490.5	467.0	452.1	430.8	405.2	388.1	386.0
45°	8581.1	5130.8	573.6	484.1	447.8	428.7	411.6	377.4	345.5	324.1	322.0
47.5°	9208.1	5173.4	520.3	441.4	411.6	392.4	368.9	326.3	283.6	264.4	258.0
50°	9504.5	4966.5	464.9	398.8	375.3	354.0	324.1	275.1	228.2	204.7	200.5
52.5°	9609.0	4608.3	420.1	360.4	339.1	313.4	277.2	221.8	179.1	155.7	153.6
55°	9566.4	4156.2	379.5	324.1	296.5	266.6	230.3	177.0	132.2	113.0	108.7
57.5°	9342.4	3580.5	339.1	287.9	253.7	223.9	183.4	132.2	89.6	72.5	70.4
60°	8738.9	2795.7	298.6	247.3	215.4	183.4	145.0	93.9	55.4	40.5	40.5
62.5°	7719.6	2074.9	260.2	206.9	181.2	147.2	102.3	59.7	29.9	21.4	19.2
65°	6450.8	1531.1	217.5	174.8	151.4	115.1	72.5	36.2	14.9	6.4	4.3
67.5°	4501.7	944.7	181.2	142.9	123.7	83.2	44.7	14.9	6.4	0.0	0.0
70°	2045.1	449.9	138.6	108.7	93.9	59.7	23.5	8.5	4.3	0.0	0.0
72.5°	635.5	236.7	98.1	78.9	64.0	38.3	12.8	6.4	4.3	0.0	0.0
75°	294.3	151.4	61.8	42.6	36.2	19.2	8.5	4.3	2.1	0.0	0.0
77.5°	219.7	117.3	36.2	23.5	19.2	12.8	6.4	4.3	2.1	0.0	0.0
80°	191.9	59.7	21.4	14.9	10.7	8.5	4.3	2.1	0.0	0.0	0.0
82.5°	172.7	29.9	12.8	8.5	6.4	4.3	2.1	2.1	0.0	0.0	0.0
85°	93.9	17.1	8.5	6.4	4.3	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	17.1	8.5	6.4	4.3	4.3	2.1	2.1	2.1	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)