

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: P652117

Luminaire Tested: **GALN-SA9A-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652117
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-SA9A-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 28679.8 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

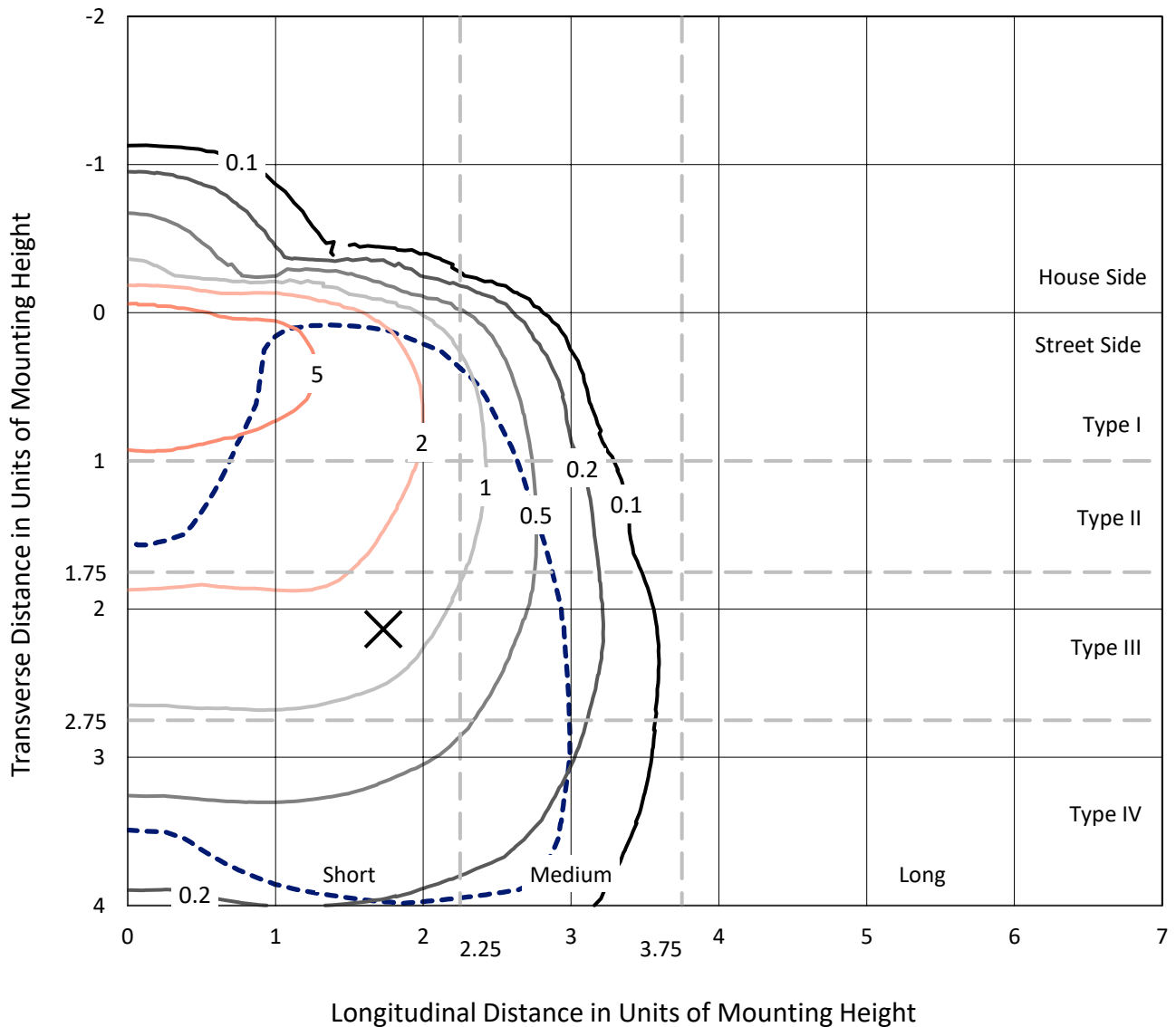
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

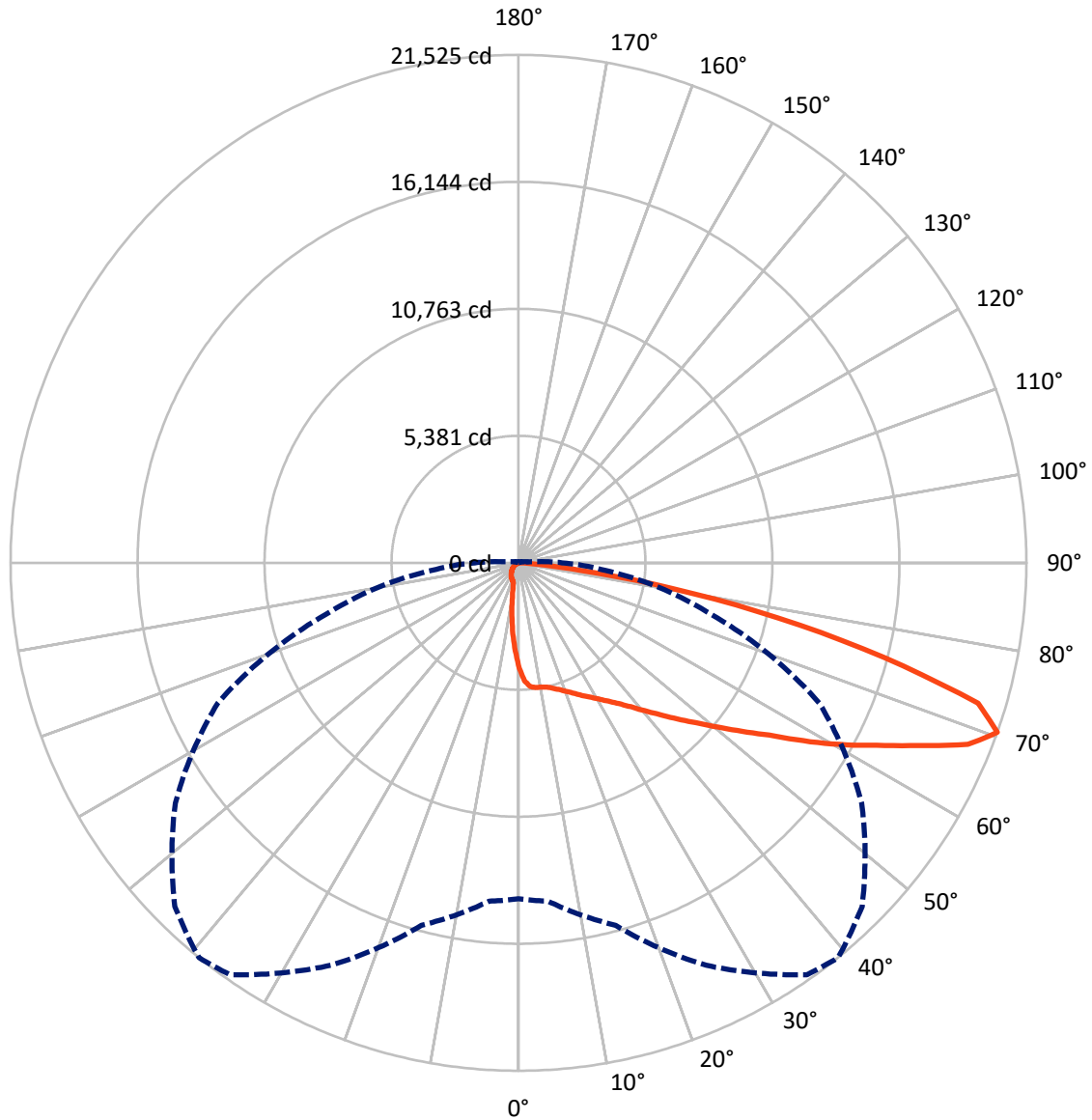
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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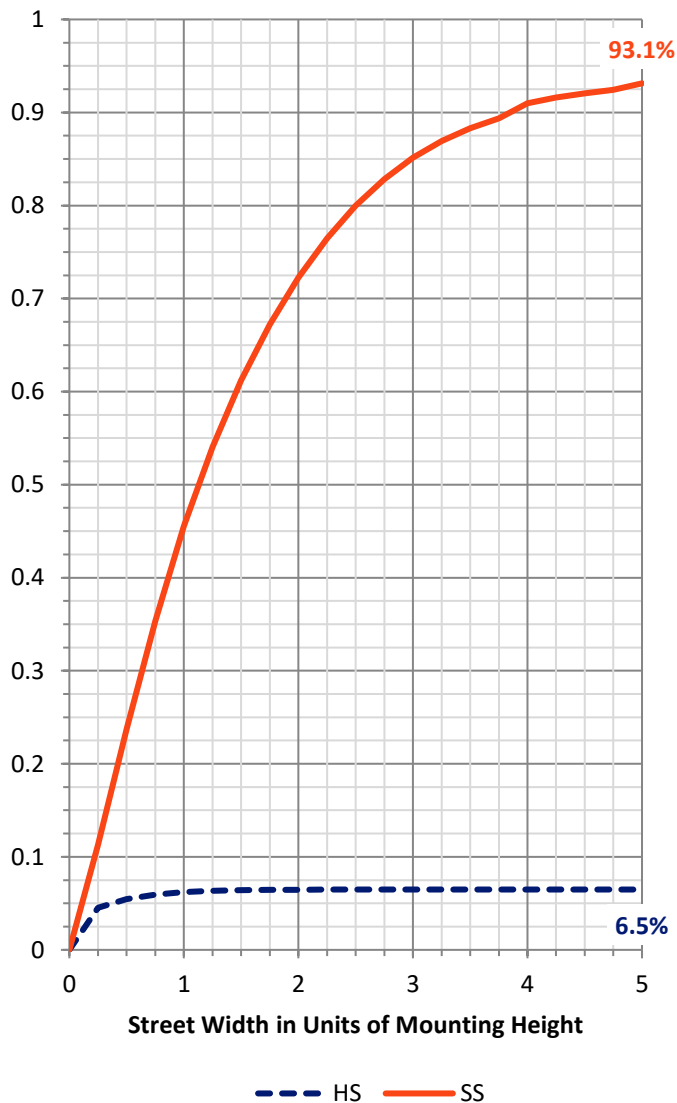
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.1	0.0	1870.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	26809.7	0.0	26809.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	28679.8	0.0	28679.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.7	1.3
10°-20°	991.9	3.5
20°-30°	1661.7	5.8
30°-40°	2577.1	9.0
40°-50°	4083.9	14.2
50°-60°	5986.4	20.9
60°-70°	7673.2	26.8
70°-80°	4821.6	16.8
80°-90°	502.3	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°	28679.8	100.0
0°-180°	28679.8	100.0

Coefficient of Utilization

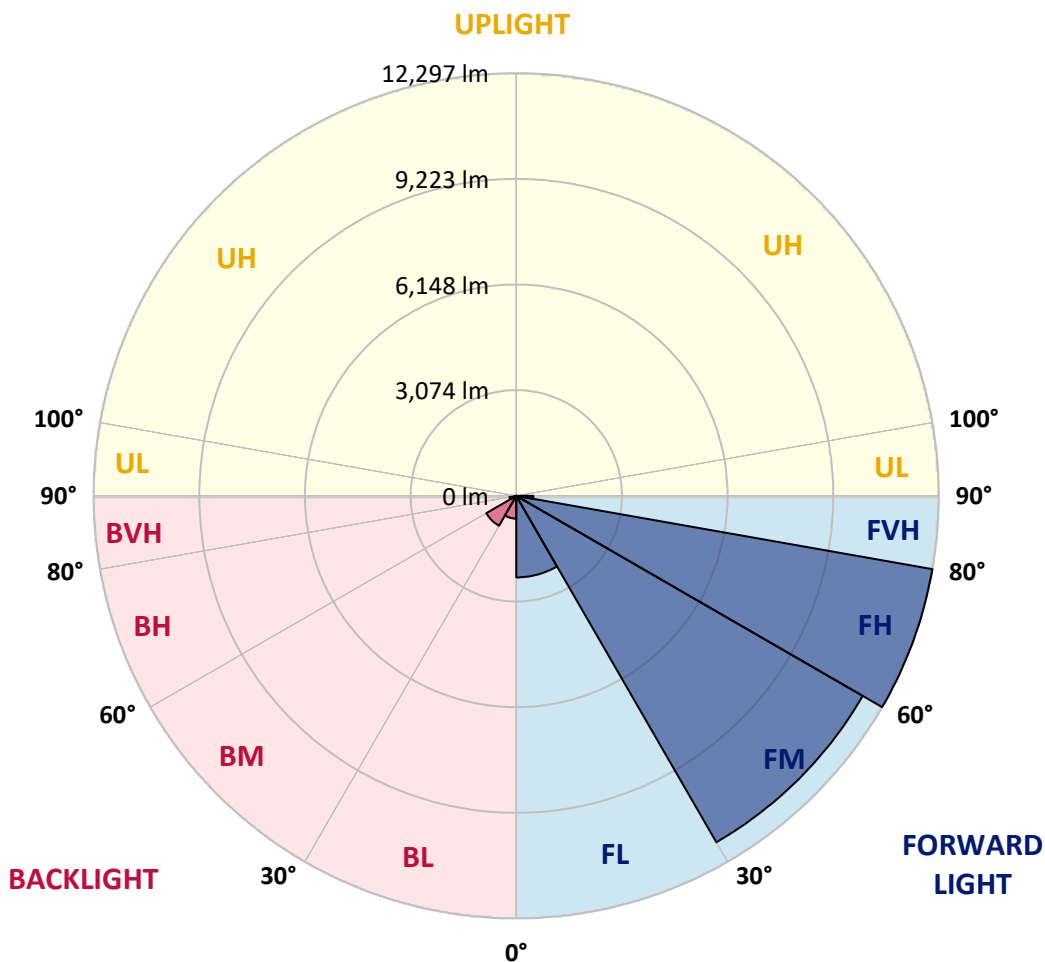


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.1	8.3			
FM (30°-60°)	11641.1	40.6			
FH (60°-80°)	12297.0	42.9			G5
FVH (80°-90°)	498.6	1.7			G3/500
BL (0°-30°)	662.2	2.3	B2/1000		
BM (30°-60°)	1006.4	3.5	B2/2500		
BH (60°-80°)	197.8	0.7	B1/500		G1/500
BVH (80°-90°)	3.7	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°	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0
2.5°	5170.7	5153.4	5130.3	5103.3	5026.2	5012.7	4966.4	4868.2	4750.6	4654.3	4521.3
5°	5415.5	5425.1	5407.8	5359.6	5303.8	5271.0	5213.2	5060.9	4908.7	4714.0	4496.2
7.5°	5471.4	5490.7	5469.4	5423.2	5369.3	5334.5	5288.3	5157.3	4980.0	4758.3	4459.6
10°	5465.7	5488.8	5475.2	5432.9	5388.5	5355.7	5305.7	5201.6	5059.0	4825.8	4471.2
12.5°	5456.0	5486.9	5484.9	5463.7	5427.1	5402.0	5371.2	5278.7	5145.7	4924.1	4534.8
15°	5429.0	5467.6	5502.2	5519.6	5521.5	5521.5	5483.0	5384.7	5257.5	5053.2	4617.7
17.5°	5440.6	5484.9	5571.6	5621.7	5656.4	5652.5	5612.1	5506.1	5365.4	5186.2	4704.4
20°	5511.9	5571.6	5693.1	5793.2	5828.0	5816.4	5762.4	5639.1	5479.1	5299.9	4789.2
22.5°	5687.3	5741.3	5893.5	6011.0	6036.1	6005.2	5928.1	5760.5	5615.9	5423.2	4891.3
25°	5949.4	6013.0	6153.7	6242.3	6242.3	6224.9	6117.0	5920.5	5770.1	5594.8	5024.3
27.5°	6267.4	6321.3	6460.1	6539.1	6492.9	6442.7	6334.8	6097.8	5953.2	5810.6	5184.3
30°	6589.2	6623.9	6770.4	6805.0	6756.8	6693.3	6577.6	6340.6	6213.4	6103.6	5415.5
32.5°	6893.7	6968.9	7090.3	7082.6	7017.1	6986.2	6880.2	6627.8	6556.4	6544.9	5739.3
35°	7198.2	7256.1	7364.0	7391.0	7333.1	7327.3	7250.3	7063.3	7065.2	7140.4	6244.3
37.5°	7460.3	7512.3	7639.6	7699.3	7710.9	7739.7	7708.9	7585.6	7760.9	7967.2	6912.9
40°	7680.0	7753.3	7915.2	8019.2	8138.7	8244.7	8250.5	8277.5	8630.2	8984.7	7786.0
42.5°	7851.6	7953.7	8188.8	8381.5	8655.2	8790.1	8898.0	9046.4	9640.0	10170.0	8815.2
45°	8075.1	8192.7	8485.6	8788.2	9216.0	9437.6	9588.0	9984.9	10827.2	11549.9	9871.2
47.5°	8445.2	8506.8	8805.5	9246.9	9809.6	10125.6	10418.6	11019.9	12101.1	12748.6	10750.1
50°	8921.2	8961.6	9187.1	9800.0	10528.5	10944.8	11478.6	12185.9	13423.2	13743.1	11247.3
52.5°	9447.3	9460.7	9630.4	10409.0	11334.1	11858.3	12455.7	13328.8	14500.5	14452.3	11576.9
55°	10058.2	10038.9	10183.5	11070.0	12288.0	12887.4	13583.2	14498.6	15435.2	14955.3	11765.8
57.5°	10757.8	10705.8	10846.5	11946.9	13509.9	14226.8	14934.1	15508.5	16159.8	15377.3	11856.3
60°	11490.2	11386.0	11553.7	12931.7	14949.5	15629.8	16217.7	16371.8	16923.0	15712.7	11700.2
62.5°	12074.1	12076.0	12388.3	13980.1	16429.6	17025.1	17337.4	17476.1	17580.2	15639.5	10879.2
65°	12985.7	13016.5	13515.7	15435.2	18143.0	18659.4	18873.4	18422.4	17609.1	14729.9	9645.8
67.5°	13926.2	14024.4	14937.9	17439.5	20122.2	20538.5	20262.9	18605.5	16822.8	12654.2	7313.8
70°	14232.6	14394.5	15899.7	18819.4	21309.4	21525.2	20592.5	17751.7	14063.0	8460.5	3681.0
72.5°	13041.6	13303.7	15346.6	18316.4	20552.0	20365.1	18424.3	14887.9	8940.4	3212.7	1123.6
75°	9196.8	9312.4	12754.4	15194.3	16529.9	15999.9	14014.8	9597.6	3677.2	902.0	385.4
77.5°	4748.7	4692.8	7585.6	10081.3	11788.9	11239.6	9177.5	4968.4	1393.4	375.8	239.0
80°	2455.3	2495.8	3282.1	5282.6	7196.3	6621.9	4893.3	2303.1	742.0	208.1	183.1
82.5°	1376.0	1291.3	1886.8	2306.9	3364.9	2638.4	1877.1	1630.4	323.8	125.3	173.4
85°	250.5	262.1	1034.9	1247.0	1167.9	742.0	605.2	1088.9	94.4	69.4	121.4
87.5°	3.9	3.9	200.4	358.4	227.4	104.0	190.8	156.1	19.3	27.0	21.2
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°	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0
2.5°	4453.9	4380.6	4243.8	4108.9	3937.3	3796.6	3702.3	3603.9	3503.7	3511.4	3534.6
5°	4376.7	4249.6	3979.7	3694.5	3420.9	3174.2	2931.3	2713.6	2624.9	2543.9	2547.8
7.5°	4299.6	4120.4	3725.4	3278.2	2863.9	2443.7	2139.3	1888.7	1755.7	1655.5	1626.6
10°	4265.0	4027.9	3492.2	2877.4	2289.5	1830.9	1439.6	1235.3	1077.3	1027.2	1040.7
12.5°	4280.4	3981.6	3282.1	2515.0	1815.5	1275.8	1002.1	898.1	863.4	857.7	853.8
15°	4309.3	3948.9	3075.9	2114.2	1333.7	948.2	842.2	822.9	819.0	815.2	817.1
17.5°	4347.8	3920.0	2856.1	1738.3	1023.3	828.7	797.9	788.3	786.3	786.3	786.3
20°	4386.4	3887.2	2611.4	1403.0	853.8	782.5	763.2	757.4	755.5	755.5	753.5
22.5°	4430.7	3858.3	2362.8	1102.4	786.3	749.7	732.3	728.5	726.5	724.6	724.6
25°	4494.3	3821.7	2098.7	902.0	743.9	718.9	701.5	697.7	695.8	688.0	690.0
27.5°	4579.1	3794.7	1827.0	778.6	705.3	680.3	668.8	663.0	659.1	653.4	655.2
30°	4694.7	3771.5	1537.9	711.1	661.0	639.8	628.3	624.4	620.6	614.8	614.8
32.5°	4895.1	3781.2	1233.4	657.2	620.6	595.5	584.0	580.1	576.3	570.5	570.5
35°	5195.8	3837.1	986.7	610.9	572.4	547.3	535.8	535.8	530.0	522.3	520.3
37.5°	5687.3	3979.7	792.1	566.6	526.1	503.0	489.5	485.7	479.9	468.4	466.4
40°	6267.4	4201.4	666.8	522.3	483.7	460.6	449.0	437.5	422.1	410.5	408.6
42.5°	6995.9	4428.8	578.2	477.9	443.3	422.1	408.6	389.3	366.2	350.8	348.8
45°	7755.2	4636.9	518.4	437.5	404.7	387.4	372.0	341.1	312.2	292.9	291.0
47.5°	8321.8	4675.5	470.2	399.0	372.0	354.6	333.4	294.9	256.3	239.0	233.2
50°	8589.6	4488.5	420.2	360.4	339.2	319.9	292.9	248.6	206.2	185.0	181.2
52.5°	8684.1	4164.7	379.6	325.7	306.5	283.3	250.5	200.4	161.9	140.7	138.8
55°	8645.6	3756.2	343.0	292.9	267.9	240.9	208.1	160.0	119.5	102.2	98.3
57.5°	8443.2	3235.8	306.5	260.2	229.3	202.3	165.8	119.5	80.9	65.5	63.6
60°	7897.8	2526.6	269.8	223.5	194.7	165.8	131.0	84.8	50.1	36.6	36.6
62.5°	6976.6	1875.2	235.1	187.0	163.8	133.0	92.5	54.0	27.0	19.3	17.3
65°	5829.9	1383.8	196.5	158.0	136.8	104.0	65.5	32.8	13.5	5.8	3.9
67.5°	4068.4	853.8	163.8	129.1	111.8	75.2	40.5	13.5	5.8	0.0	0.0
70°	1848.2	406.6	125.3	98.3	84.8	54.0	21.2	7.7	3.9	0.0	0.0
72.5°	574.3	214.0	88.6	71.3	57.8	34.6	11.5	5.8	3.9	0.0	0.0
75°	265.9	136.8	55.9	38.5	32.8	17.3	7.7	3.9	1.9	0.0	0.0
77.5°	198.5	106.0	32.8	21.2	17.3	11.5	5.8	3.9	1.9	0.0	0.0
80°	173.4	54.0	19.3	13.5	9.7	7.7	3.9	1.9	0.0	0.0	0.0
82.5°	156.1	27.0	11.5	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
85°	84.8	15.4	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	15.4	7.7	5.8	3.9	3.9	1.9	1.9	1.9	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)