

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: P652062

Luminaire Tested: **GALN-SA8A-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652062
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-SA8A-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 25546.2 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 - G4

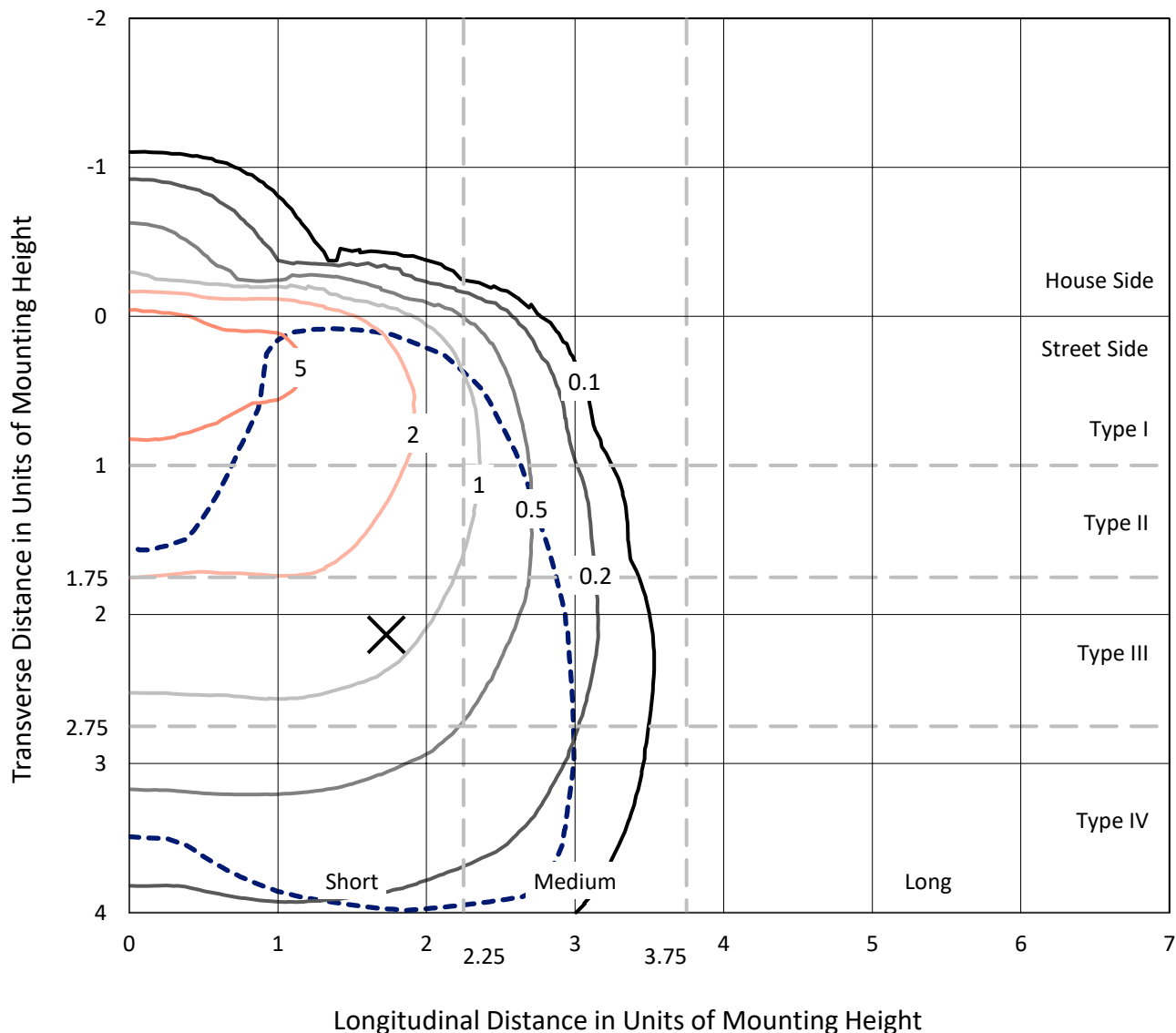
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

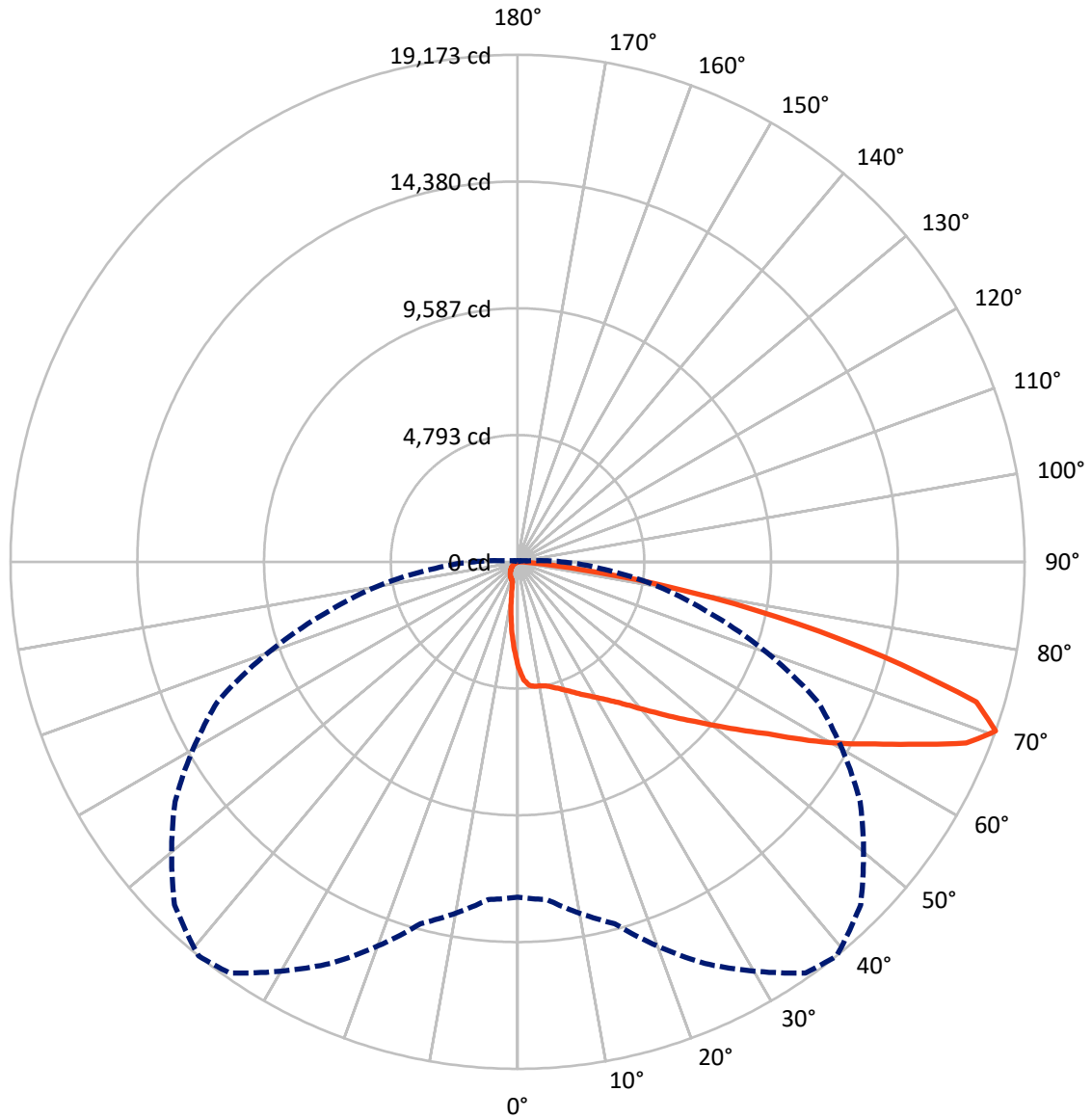
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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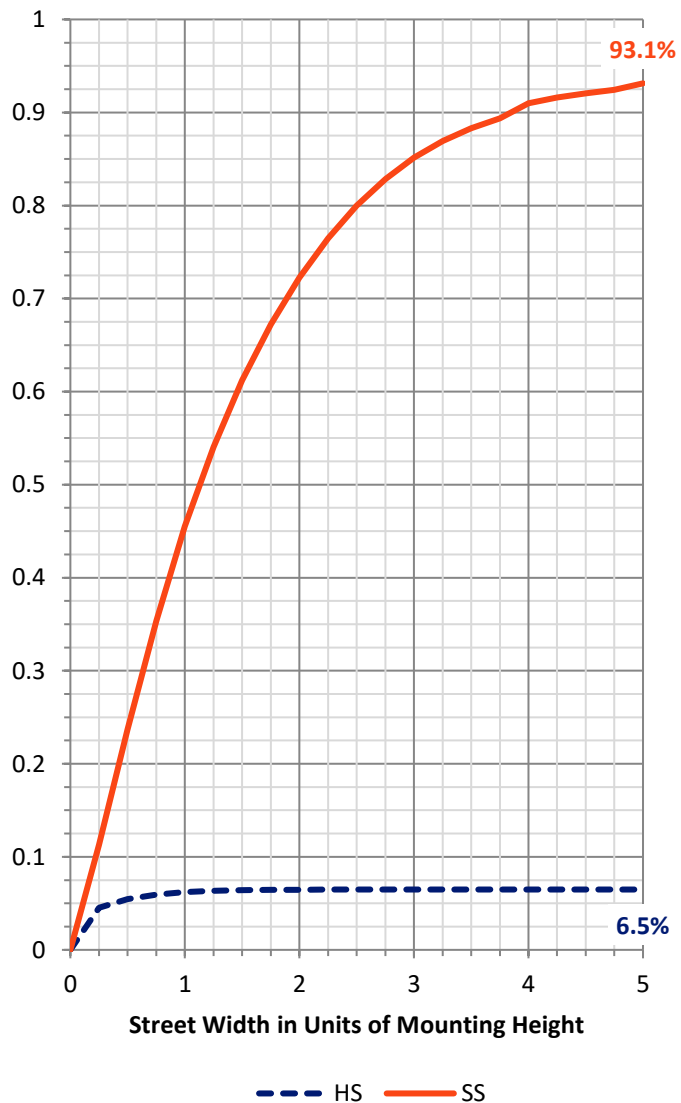
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1665.7	0.0	1665.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	23880.5	0.0	23880.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	25546.2	0.0	25546.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	1.3
10°-20°	883.5	3.5
20°-30°	1480.1	5.8
30°-40°	2295.5	9.0
40°-50°	3637.7	14.2
50°-60°	5332.4	20.9
60°-70°	6834.8	26.8
70°-80°	4294.8	16.8
80°-90°	447.4	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°	25546.2	100.0
0°-180°	25546.2	100.0

Coefficient of Utilization

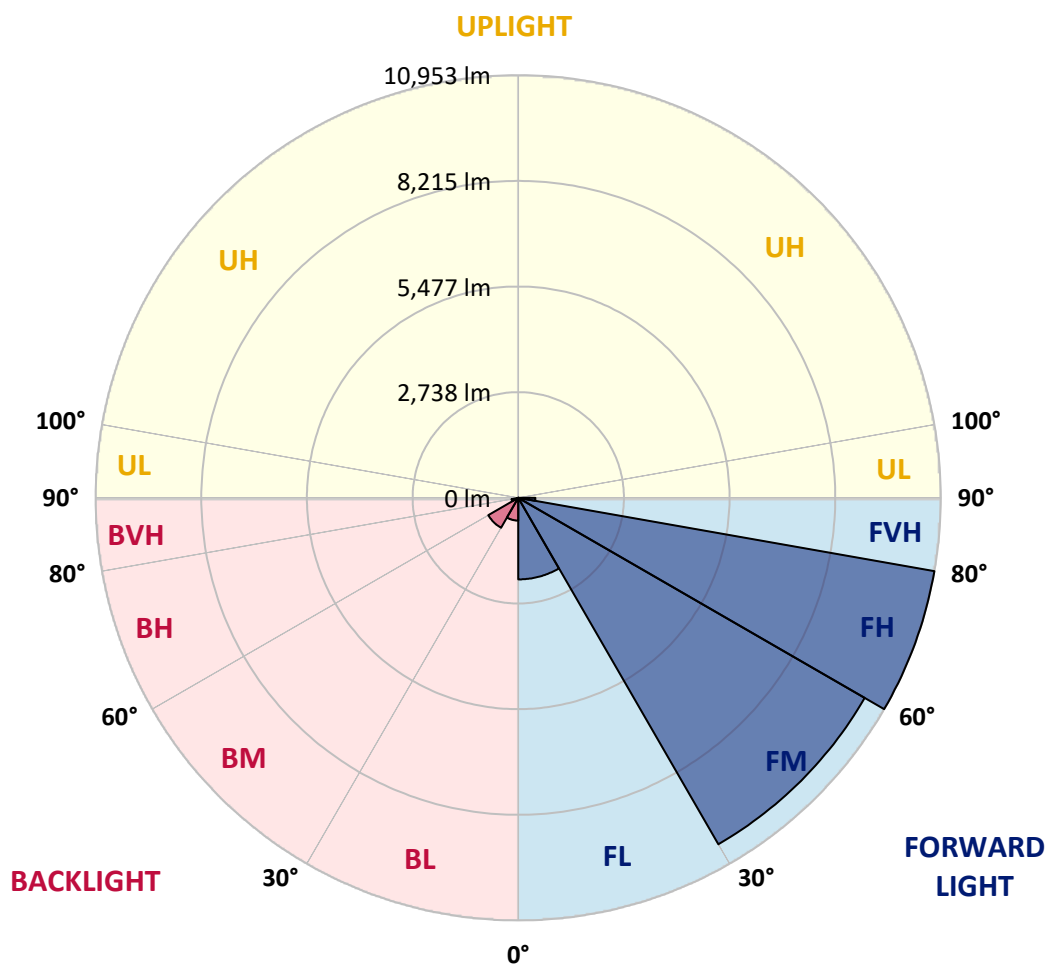


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.8	8.3			
FM (30°-60°)	10369.2	40.6			
FH (60°-80°)	10953.4	42.9			G4/12000
FVH (80°-90°)	444.1	1.7			G3/500
BL (0°-30°)	589.8	2.3	B2/1000		
BM (30°-60°)	896.5	3.5	B1/1000		
BH (60°-80°)	176.2	0.7	B1/500		G1/500
BVH (80°-90°)	3.3	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	4605.8	4590.3	4569.7	4545.7	4477.1	4465.0	4423.8	4336.3	4231.6	4145.7	4027.3
5°	4823.8	4832.4	4816.9	4774.0	4724.2	4695.1	4643.6	4507.9	4372.4	4198.9	4005.0
7.5°	4873.6	4890.8	4871.9	4830.7	4782.6	4751.7	4710.5	4593.8	4435.9	4238.5	3972.4
10°	4868.5	4889.1	4877.0	4839.3	4799.8	4770.6	4726.0	4633.2	4506.2	4298.5	3982.6
12.5°	4859.9	4887.3	4885.6	4866.7	4834.2	4811.8	4784.4	4701.9	4583.4	4386.1	4039.3
15°	4835.8	4870.1	4901.1	4916.5	4918.3	4918.3	4883.9	4796.4	4683.0	4501.1	4113.1
17.5°	4846.1	4885.6	4962.8	5007.5	5038.4	5035.0	4998.9	4904.5	4779.2	4619.5	4190.4
20°	4909.7	4962.8	5071.0	5160.3	5191.2	5180.9	5132.8	5023.0	4880.5	4720.8	4265.9
22.5°	5065.8	5114.0	5249.5	5354.2	5376.6	5349.1	5280.5	5131.1	5002.4	4830.7	4356.9
25°	5299.3	5356.0	5481.3	5560.3	5560.3	5544.8	5448.7	5273.6	5139.7	4983.4	4475.3
27.5°	5582.6	5630.7	5754.2	5824.6	5783.4	5738.8	5642.7	5431.5	5302.8	5175.8	4617.8
30°	5869.3	5900.2	6030.6	6061.5	6018.6	5961.9	5859.0	5647.8	5534.5	5436.6	4823.8
32.5°	6140.5	6207.4	6315.6	6308.8	6250.4	6222.9	6128.5	5903.6	5840.1	5829.8	5112.2
35°	6411.7	6463.3	6559.4	6583.4	6531.9	6526.7	6458.0	6291.5	6293.3	6360.2	5562.0
37.5°	6645.2	6691.6	6804.9	6858.0	6868.4	6894.1	6866.7	6756.8	6913.0	7096.7	6157.6
40°	6840.9	6906.1	7050.4	7143.0	7249.4	7343.9	7349.0	7373.0	7687.2	8003.0	6935.3
42.5°	6993.7	7084.7	7294.1	7465.7	7709.5	7829.7	7925.8	8058.0	8586.8	9058.8	7852.0
45°	7192.8	7297.5	7558.5	7827.9	8209.1	8406.5	8540.4	8894.0	9644.2	10288.0	8792.7
47.5°	7522.4	7577.3	7843.4	8236.5	8737.8	9019.3	9280.3	9815.9	10778.9	11355.7	9575.5
50°	7946.4	7982.4	8183.4	8729.2	9378.1	9749.0	10224.5	10854.5	11956.6	12241.5	10018.4
52.5°	8415.0	8427.1	8578.1	9271.7	10095.7	10562.6	11094.8	11872.4	12916.2	12873.3	10312.0
55°	8959.3	8942.1	9070.9	9860.5	10945.4	11479.3	12099.0	12914.4	13748.8	13321.3	10480.2
57.5°	9582.4	9536.0	9661.3	10641.6	12033.8	12672.4	13302.4	13813.9	14394.2	13697.2	10560.9
60°	10234.7	10142.0	10291.4	11518.8	13316.1	13922.1	14445.7	14583.0	15074.0	13995.9	10421.8
62.5°	10754.9	10756.6	11034.7	12452.7	14634.5	15165.0	15443.1	15566.7	15659.4	13930.7	9690.6
65°	11566.9	11594.4	12038.9	13748.8	16160.7	16620.7	16811.3	16409.6	15685.2	13120.4	8591.9
67.5°	12404.6	12492.1	13305.8	15534.0	17923.6	18294.4	18049.0	16572.7	14984.8	11271.6	6514.7
70°	12677.6	12821.7	14162.4	16763.2	18981.1	19173.4	18342.5	15812.1	12526.4	7536.1	3278.8
72.5°	11616.6	11850.1	13669.8	16315.1	18306.5	18139.9	16411.3	13261.2	7963.6	2861.7	1000.8
75°	8191.9	8294.9	11360.9	13534.1	14723.8	14251.8	12483.6	8548.9	3275.4	803.4	343.3
77.5°	4229.9	4180.1	6756.8	8979.9	10500.8	10011.6	8174.8	4425.5	1241.1	334.7	212.9
80°	2187.0	2223.1	2923.5	4705.4	6410.0	5898.4	4358.6	2051.5	660.9	185.4	163.1
82.5°	1225.7	1150.2	1680.6	2054.8	2997.3	2350.1	1672.0	1452.3	288.4	111.6	154.5
85°	223.2	233.5	921.8	1110.7	1040.3	660.9	539.0	969.9	84.1	61.8	108.2
87.5°	3.4	3.4	178.5	319.3	202.6	92.7	170.0	139.0	17.2	24.1	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°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	3967.2	3902.0	3780.1	3659.9	3507.1	3381.8	3297.7	3210.2	3120.9	3127.8	3148.4
5°	3898.5	3785.3	3544.9	3290.8	3047.1	2827.4	2611.1	2417.0	2338.1	2266.0	2269.4
7.5°	3829.8	3670.2	3318.3	2920.0	2550.9	2176.8	1905.5	1682.3	1563.8	1474.6	1448.9
10°	3799.0	3587.8	3110.6	2562.9	2039.4	1630.9	1282.4	1100.4	959.6	915.0	927.0
12.5°	3812.7	3546.6	2923.5	2240.3	1617.1	1136.4	892.6	800.0	769.1	763.9	760.5
15°	3838.5	3517.4	2739.8	1883.2	1187.9	844.6	750.2	733.0	729.6	726.1	727.9
17.5°	3872.8	3491.7	2544.1	1548.4	911.6	738.1	710.7	702.2	700.4	700.4	700.4
20°	3907.1	3462.5	2326.0	1249.7	760.5	696.9	679.8	674.7	673.0	673.0	671.2
22.5°	3946.6	3436.7	2104.6	982.0	700.4	667.8	652.4	648.9	647.1	645.5	645.5
25°	4003.2	3404.1	1869.5	803.4	662.6	640.3	624.9	621.4	619.7	612.8	614.6
27.5°	4078.8	3380.1	1627.4	693.6	628.3	605.9	595.7	590.6	587.1	582.0	583.7
30°	4181.8	3359.5	1369.9	633.4	588.8	569.9	559.6	556.2	552.8	547.6	547.6
32.5°	4360.3	3368.1	1098.7	585.4	552.8	530.4	520.2	516.7	513.3	508.1	508.1
35°	4628.1	3417.9	878.9	544.2	509.8	487.5	477.3	477.3	472.1	465.2	463.5
37.5°	5065.8	3544.9	705.5	504.7	468.7	448.1	436.1	432.6	427.5	417.1	415.5
40°	5582.6	3742.3	594.0	465.2	430.8	410.3	400.0	389.7	375.9	365.7	363.9
42.5°	6231.5	3944.9	515.0	425.7	394.8	375.9	363.9	346.7	326.1	312.4	310.7
45°	6907.8	4130.3	461.8	389.7	360.5	345.1	331.4	303.9	278.1	261.0	259.2
47.5°	7412.6	4164.6	418.9	355.3	331.4	315.9	297.0	262.6	228.3	212.9	207.7
50°	7651.2	3998.1	374.2	321.0	302.2	284.9	261.0	221.4	183.7	164.8	161.4
52.5°	7735.3	3709.7	338.2	290.1	273.0	252.4	223.2	178.5	144.2	125.3	123.6
55°	7701.0	3345.8	305.5	261.0	238.6	214.6	185.4	142.5	106.5	91.0	87.5
57.5°	7520.7	2882.3	273.0	231.8	204.3	180.2	147.6	106.5	72.1	58.4	56.7
60°	7034.9	2250.5	240.4	199.1	173.4	147.6	116.7	75.5	44.7	32.6	32.6
62.5°	6214.3	1670.3	209.4	166.5	145.9	118.4	82.4	48.1	24.1	17.2	15.5
65°	5192.9	1232.6	175.1	140.8	121.9	92.7	58.4	29.2	12.0	5.1	3.4
67.5°	3623.9	760.5	145.9	115.0	99.6	66.9	36.1	12.0	5.1	0.0	0.0
70°	1646.3	362.2	111.6	87.5	75.5	48.1	18.9	6.9	3.4	0.0	0.0
72.5°	511.6	190.6	79.0	63.5	51.5	30.9	10.3	5.1	3.4	0.0	0.0
75°	236.9	121.9	49.8	34.3	29.2	15.5	6.9	3.4	1.7	0.0	0.0
77.5°	176.8	94.4	29.2	18.9	15.5	10.3	5.1	3.4	1.7	0.0	0.0
80°	154.5	48.1	17.2	12.0	8.6	6.9	3.4	1.7	0.0	0.0	0.0
82.5°	139.0	24.1	10.3	6.9	5.1	3.4	1.7	1.7	0.0	0.0	0.0
85°	75.5	13.7	6.9	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.7	6.9	5.1	3.4	3.4	1.7	1.7	1.7	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)