

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: P652390

Luminaire Tested: **GALN-SA5B-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19824.1 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

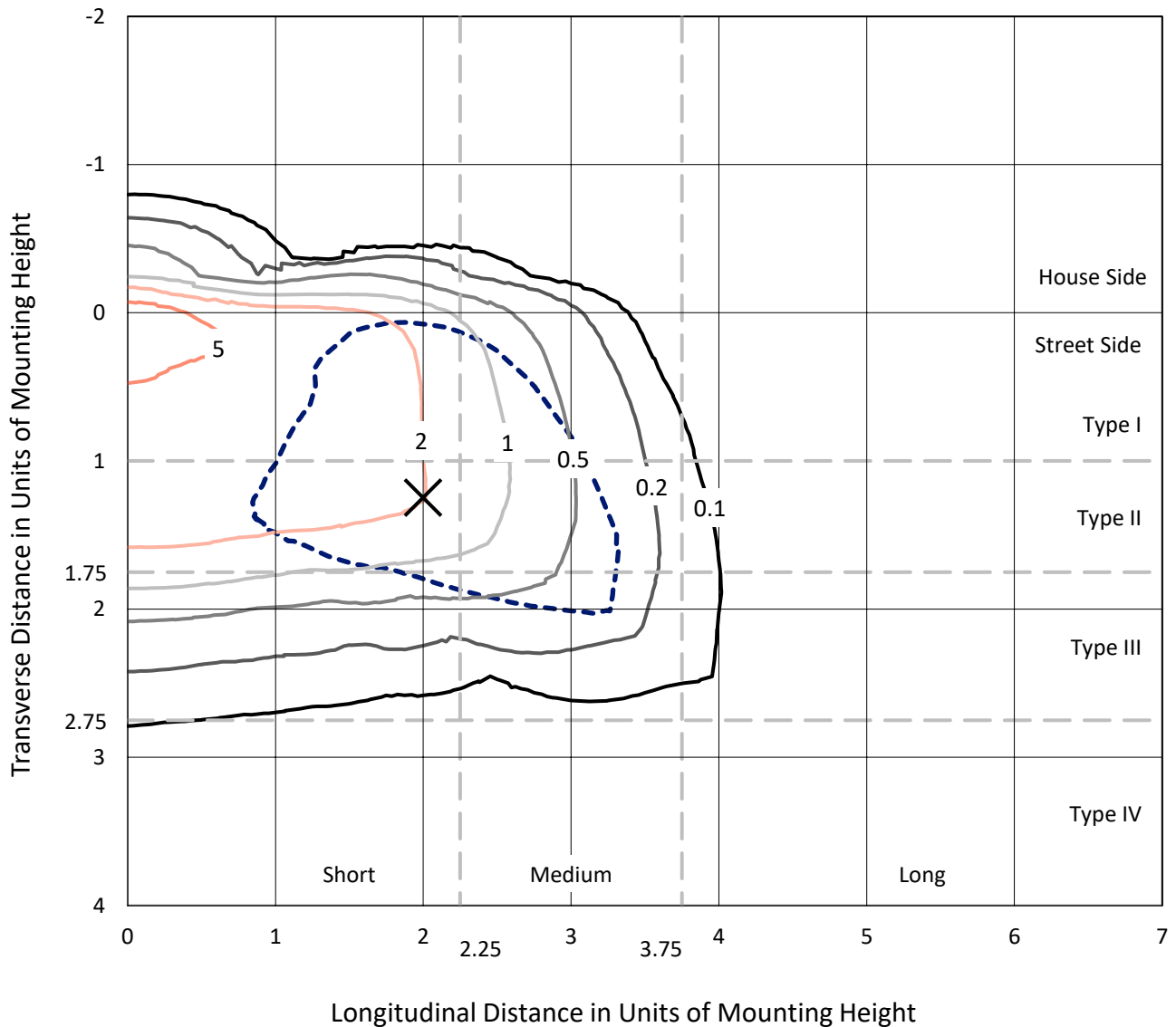
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

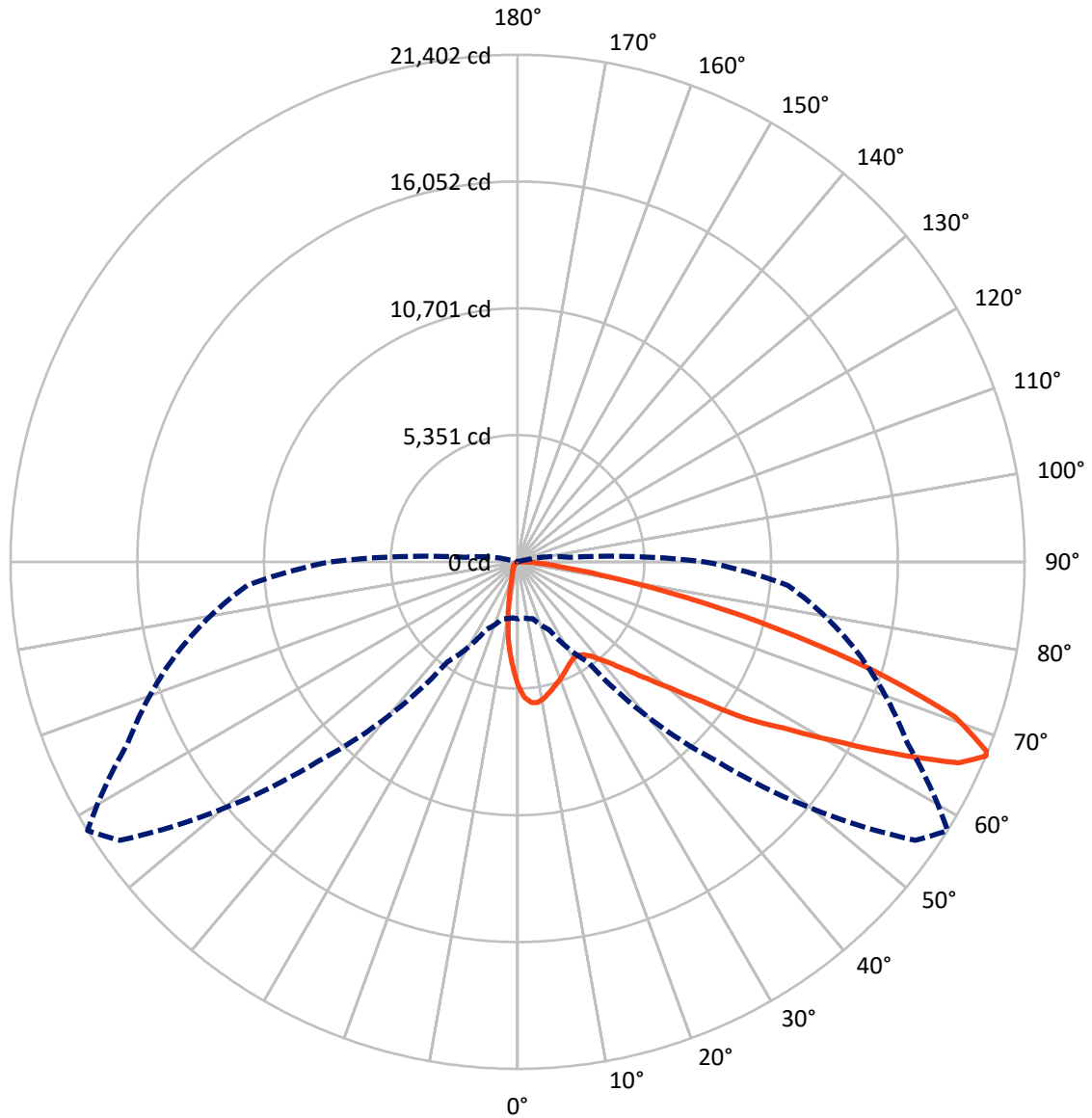
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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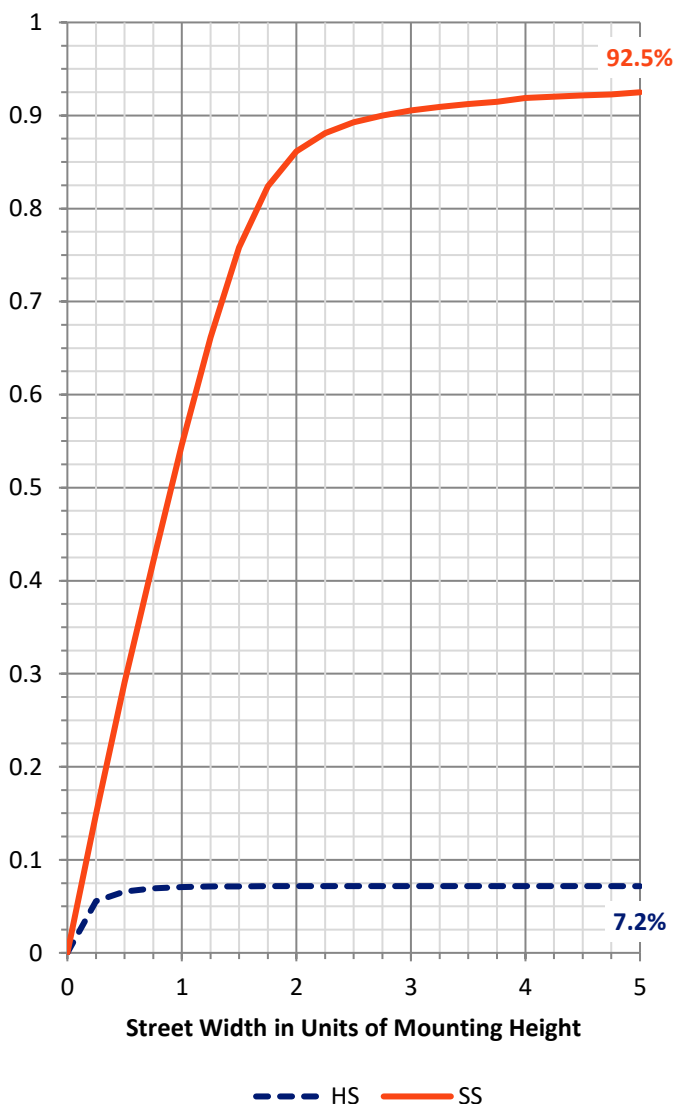
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1430.6	0.0	1430.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18393.4	0.0	18393.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	19824.1	0.0	19824.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	2.2
10°-20°	921.0	4.6
20°-30°	1248.0	6.3
30°-40°	1731.0	8.7
40°-50°	2760.7	13.9
50°-60°	4772.1	24.1
60°-70°	5451.2	27.5
70°-80°	2272.7	11.5
80°-90°	241.0	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°	19824.1	100.0
0°-180°	19824.1	100.0

Coefficient of Utilization

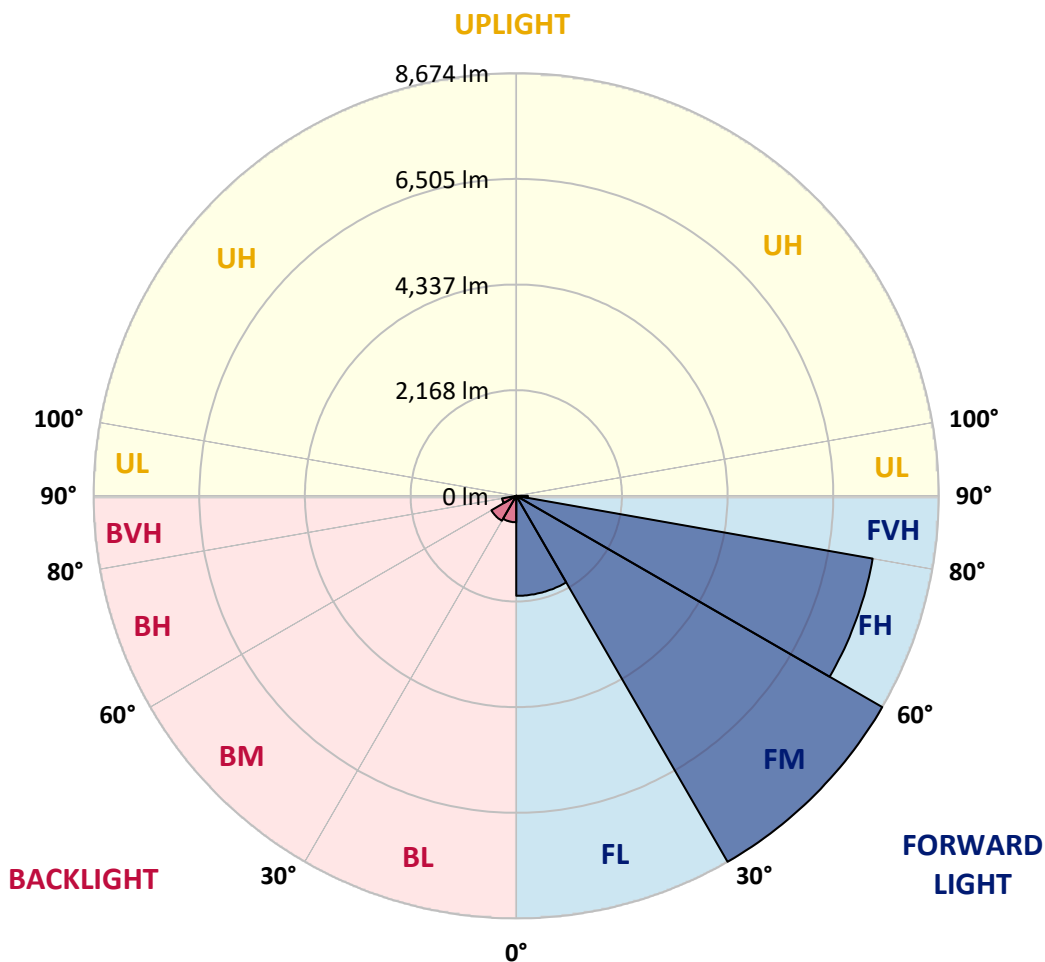


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.3	10.4			
FM (30°-60°)	8673.9	43.8			
FH (60°-80°)	7428.1	37.5			G3/7500
FVH (80°-90°)	239.2	1.2			G3/500
BL (0°-30°)	543.2	2.7	B2/1000		
BM (30°-60°)	589.9	3.0	B1/1000		
BH (60°-80°)	295.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2
2.5°	6099.0	6108.3	6073.9	6046.0	5974.5	5897.7	5795.7	5741.3	5648.6	5488.4	5310.8
5°	6242.1	6254.0	6248.7	6242.1	6214.2	6140.1	6010.3	5962.6	5826.1	5565.1	5244.6
7.5°	5924.2	5967.9	5973.2	6024.8	6073.9	6080.5	6031.5	5995.7	5869.8	5563.8	5126.7
10°	5502.9	5532.0	5574.4	5634.0	5751.9	5850.0	5897.7	5892.4	5819.5	5522.8	4988.9
12.5°	5077.6	5093.5	5158.4	5260.5	5404.9	5571.8	5699.0	5724.1	5725.4	5473.7	4873.7
15°	4712.0	4705.4	4755.8	4873.7	5076.4	5285.6	5513.5	5553.2	5616.8	5426.0	4766.4
17.5°	4399.4	4433.8	4441.8	4571.6	4758.4	5029.9	5320.1	5390.3	5517.5	5385.0	4677.6
20°	4206.0	4224.5	4241.8	4314.6	4482.9	4769.0	5138.6	5235.3	5424.7	5347.9	4578.2
22.5°	4149.0	4160.9	4146.4	4168.9	4288.1	4542.5	4941.2	5069.7	5336.0	5313.4	4497.4
25°	4192.7	4204.7	4170.3	4143.7	4184.8	4358.3	4750.5	4906.7	5264.4	5306.9	4436.5
27.5°	4298.7	4321.2	4273.5	4225.9	4202.1	4259.0	4600.8	4782.3	5215.5	5338.7	4408.7
30°	4464.3	4477.6	4441.8	4383.5	4329.2	4272.2	4522.6	4696.1	5202.2	5412.8	4406.0
32.5°	4644.5	4672.3	4652.4	4614.0	4543.8	4408.7	4545.1	4698.8	5234.0	5520.2	4439.1
35°	4867.0	4898.8	4917.4	4909.4	4819.4	4651.1	4688.2	4818.0	5318.7	5717.5	4529.2
37.5°	5085.6	5113.4	5218.1	5253.8	5174.3	5015.4	4966.4	5052.5	5505.5	5975.8	4692.2
40°	5336.0	5373.1	5520.2	5656.6	5618.1	5451.2	5361.1	5432.7	5791.7	6365.3	5000.8
42.5°	5575.7	5642.0	5865.9	6107.0	6142.7	5956.0	5896.3	5920.2	6215.6	6925.6	5431.3
45°	5916.2	5978.5	6267.3	6594.4	6762.7	6617.0	6556.0	6552.1	6797.1	7713.8	6129.5
47.5°	6407.7	6463.3	6803.8	7127.0	7426.4	7446.3	7331.0	7370.8	7528.4	8635.9	6985.3
50°	7010.4	7141.6	7365.5	7702.0	8102.0	8425.2	8461.0	8408.0	8543.1	9703.6	8013.2
52.5°	7886.1	7936.4	8141.7	8418.6	8887.6	9436.0	9861.2	9788.4	9746.0	10721.0	9051.9
55°	8539.2	8606.7	8926.0	9306.2	9993.7	10717.0	11639.0	11664.2	11129.0	11698.6	10067.9
57.5°	8341.8	8445.1	8928.6	9693.0	11204.5	12526.6	13212.8	13230.0	12408.7	12648.5	11215.1
60°	7328.4	7377.4	8070.2	9090.3	11307.8	14487.2	15445.0	15305.9	13710.9	13710.9	12228.5
62.5°	5196.9	5273.7	5835.4	7336.3	10212.3	15168.1	18118.3	17830.8	15504.6	14726.9	12832.6
65°	3321.1	3246.9	3619.2	4631.2	7607.9	14162.6	20445.8	20463.0	17192.2	15133.6	12502.7
67°	2405.7	2376.6	2483.9	3166.1	5158.4	11905.3	20494.7	21402.2	18162.0	14876.6	11448.3
67.5°	2200.4	2222.8	2301.1	2856.1	4686.9	10833.6	20272.2	21346.6	18380.6	14721.6	11066.7
70°	1667.8	1629.4	1714.2	2020.2	2809.7	6834.2	17438.6	19578.1	18108.9	13183.6	8842.5
72.5°	1226.7	1222.7	1340.6	1651.9	2163.3	3640.4	13090.9	15697.9	14794.5	10038.8	5567.8
75°	828.0	865.1	1053.2	1380.3	1960.6	2360.7	8924.7	11388.7	10270.5	5700.3	2275.9
77.5°	471.6	474.2	678.3	1108.8	1760.5	1899.7	5288.3	7255.5	5436.6	1895.7	675.6
80°	204.0	223.9	336.5	805.4	1459.8	1682.4	3032.3	3987.4	2199.0	401.4	218.6
82.5°	75.5	88.7	148.4	495.4	1065.0	1385.6	1832.1	1903.6	745.8	141.7	136.4
85°	0.0	2.7	54.3	231.9	555.1	618.6	1224.1	1128.6	329.8	67.5	88.7
87.5°	0.0	0.0	0.0	23.9	72.8	230.5	380.2	423.9	79.5	23.9	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°	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2	5255.2
2.5°	5215.5	5129.3	4913.4	4697.5	4537.2	4403.4	4202.1	4092.1	4033.8	3947.7	3953.0
5°	5084.3	4909.4	4529.2	4135.8	3817.9	3507.9	3136.9	2987.2	2861.4	2789.8	2742.2
7.5°	4889.6	4631.2	4068.3	3543.6	3054.8	2513.0	2106.3	1834.7	1651.9	1584.4	1519.4
10°	4676.3	4333.2	3600.6	2873.4	2195.1	1636.0	1291.6	1042.6	953.8	871.7	879.6
12.5°	4478.9	4061.6	3171.4	2267.9	1538.0	1039.9	810.7	708.7	679.6	670.3	670.3
15°	4317.3	3802.0	2710.4	1705.0	1054.4	747.1	649.1	621.3	610.7	608.0	608.0
17.5°	4145.0	3555.6	2294.4	1259.8	767.0	625.3	592.1	573.6	569.6	567.0	567.0
20°	3991.4	3307.8	1899.7	937.9	620.0	563.0	541.8	529.9	525.9	523.3	524.6
22.5°	3845.6	3087.9	1528.8	708.7	545.8	512.7	491.5	479.5	471.6	465.0	466.3
25°	3715.9	2876.0	1229.4	580.2	491.5	462.3	441.1	423.9	406.7	398.7	397.5
27.5°	3624.5	2690.5	957.8	496.8	442.5	410.7	384.2	363.0	340.4	328.5	325.9
30°	3548.9	2502.4	757.7	438.5	393.4	363.0	329.8	299.4	275.5	263.7	258.4
32.5°	3499.9	2323.6	597.4	390.8	352.4	315.3	278.2	247.8	221.3	209.3	206.6
35°	3492.0	2173.9	488.8	351.0	315.3	275.5	237.2	204.0	181.5	169.5	166.9
37.5°	3548.9	2058.6	409.3	319.2	284.8	241.1	198.7	168.2	148.4	139.1	137.8
40°	3701.2	1985.8	355.0	292.8	257.0	209.3	169.5	143.1	123.2	114.0	114.0
42.5°	3991.4	1988.4	319.2	267.6	229.2	178.8	144.4	119.3	102.0	94.0	91.4
45°	4444.4	2078.5	288.8	242.5	202.7	155.0	123.2	98.1	80.8	74.2	74.2
47.5°	5051.1	2257.3	262.3	217.2	178.8	132.5	104.6	79.5	64.9	58.3	58.3
50°	5844.7	2544.8	239.8	196.0	158.9	114.0	84.8	64.9	50.4	45.1	43.7
52.5°	6673.9	2899.9	213.3	177.5	136.4	96.7	68.9	50.4	38.4	34.5	33.1
55°	7589.4	3246.9	188.1	158.9	111.3	80.8	54.3	39.8	27.8	23.9	23.9
57.5°	8512.7	3587.4	157.6	132.5	87.5	59.6	42.4	29.2	18.6	14.5	14.5
60°	9294.2	3697.3	133.8	107.3	66.3	42.4	30.4	18.6	10.6	6.6	6.6
62.5°	9401.5	3326.4	112.6	82.2	47.7	29.2	15.9	10.6	4.0	2.7	2.7
65°	8818.6	2702.5	94.0	62.2	31.8	14.5	6.6	4.0	1.3	0.0	0.0
67°	7902.0	2191.1	76.9	46.3	22.5	9.3	4.0	1.3	0.0	0.0	0.0
67.5°	7667.5	2089.1	74.2	43.7	19.8	8.0	2.7	1.3	0.0	0.0	0.0
70°	6016.9	1564.5	53.0	26.5	11.9	5.3	0.0	0.0	0.0	0.0	0.0
72.5°	3739.7	884.9	38.4	15.9	8.0	2.7	0.0	0.0	0.0	0.0	0.0
75°	1413.5	310.0	26.5	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	439.8	117.9	15.9	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.4	45.1	10.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.4	18.6	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.9	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	2.7	1.3	0.0	0.0	0.0	0.0	0.0	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)