

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: P648488

Luminaire Tested: **GALN-SA6B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25860.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

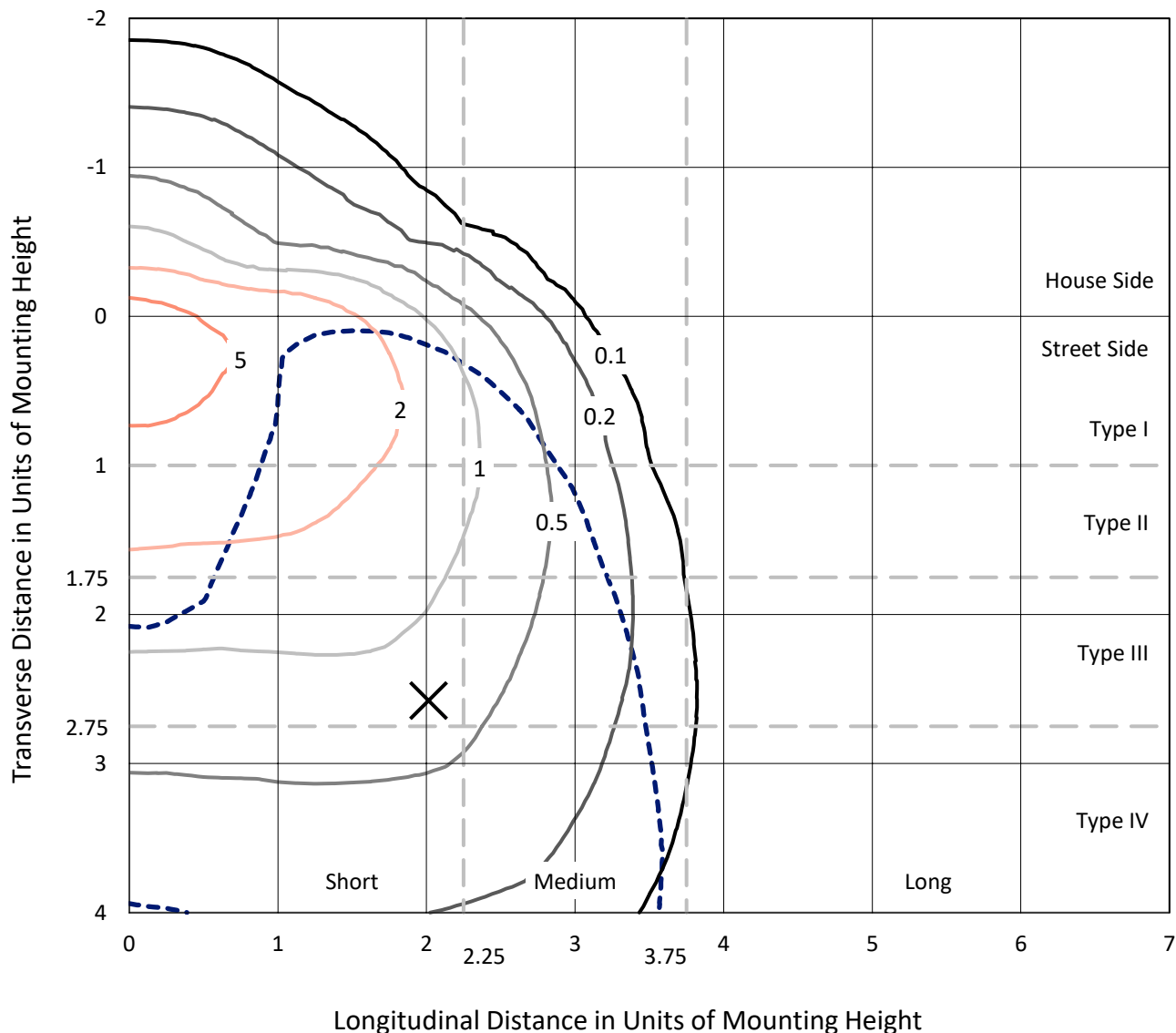
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

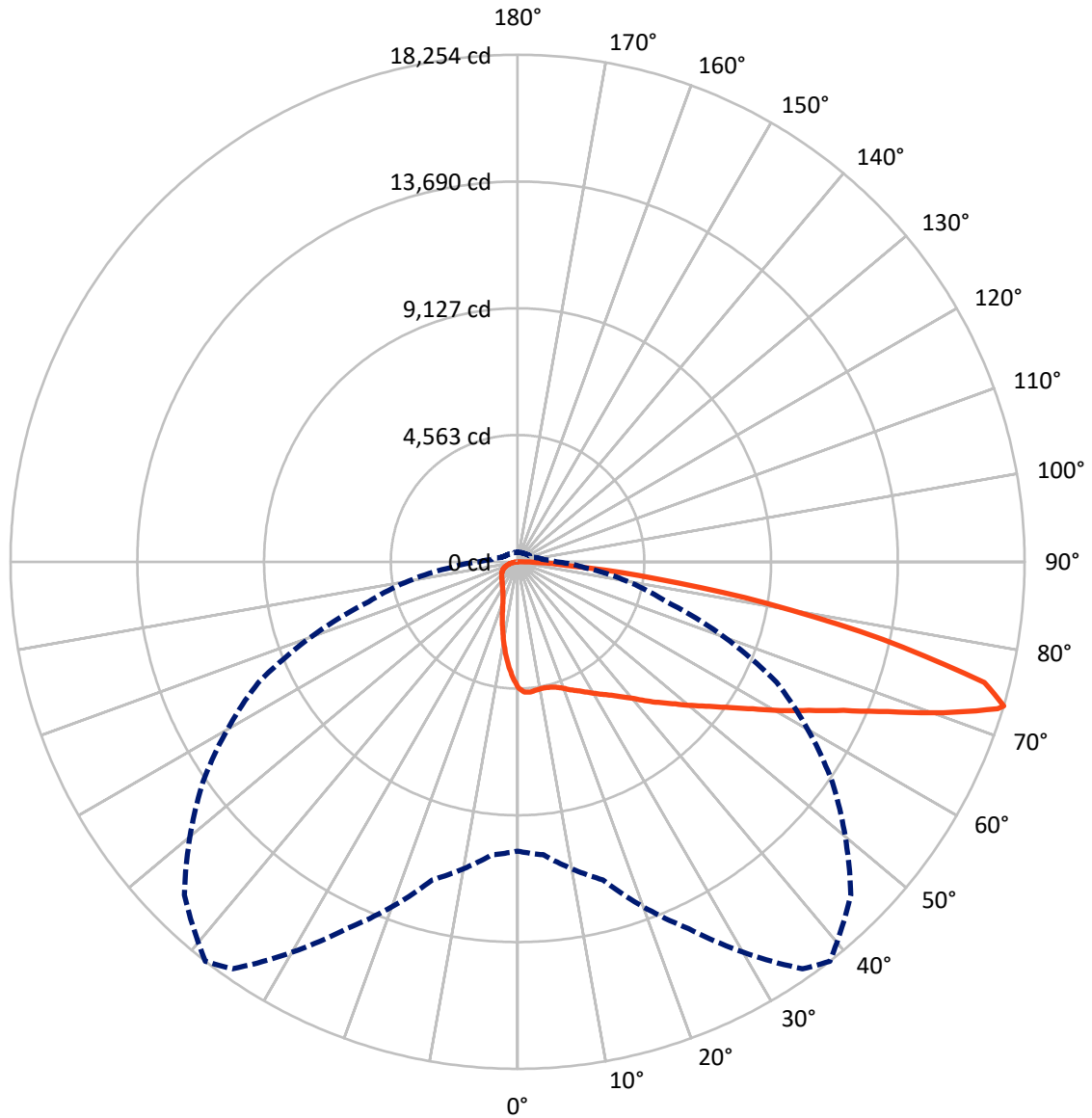
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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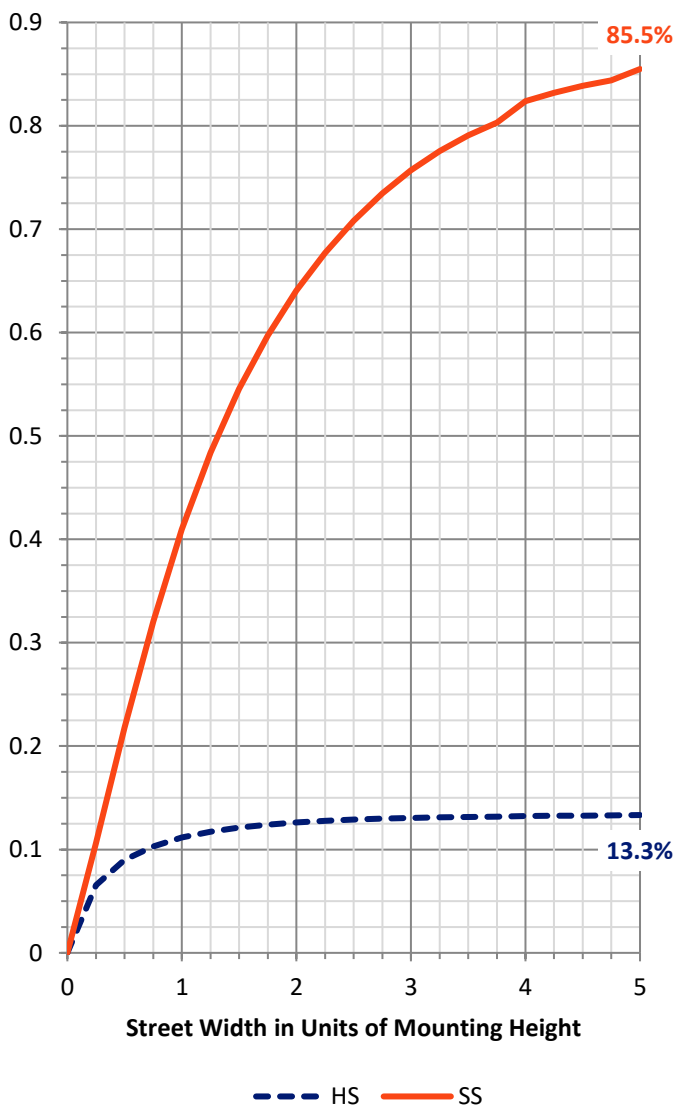
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3476.5	0.0	3476.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22384.4	0.0	22384.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	25860.9	0.0	25860.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.6	1.5
10°-20°	1017.0	3.9
20°-30°	1583.6	6.1
30°-40°	2322.8	9.0
40°-50°	3445.6	13.3
50°-60°	4881.7	18.9
60°-70°	6192.6	23.9
70°-80°	5154.9	19.9
80°-90°	866.1	3.3
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°	25860.9	100.0
0°-180°	25860.9	100.0

Coefficient of Utilization

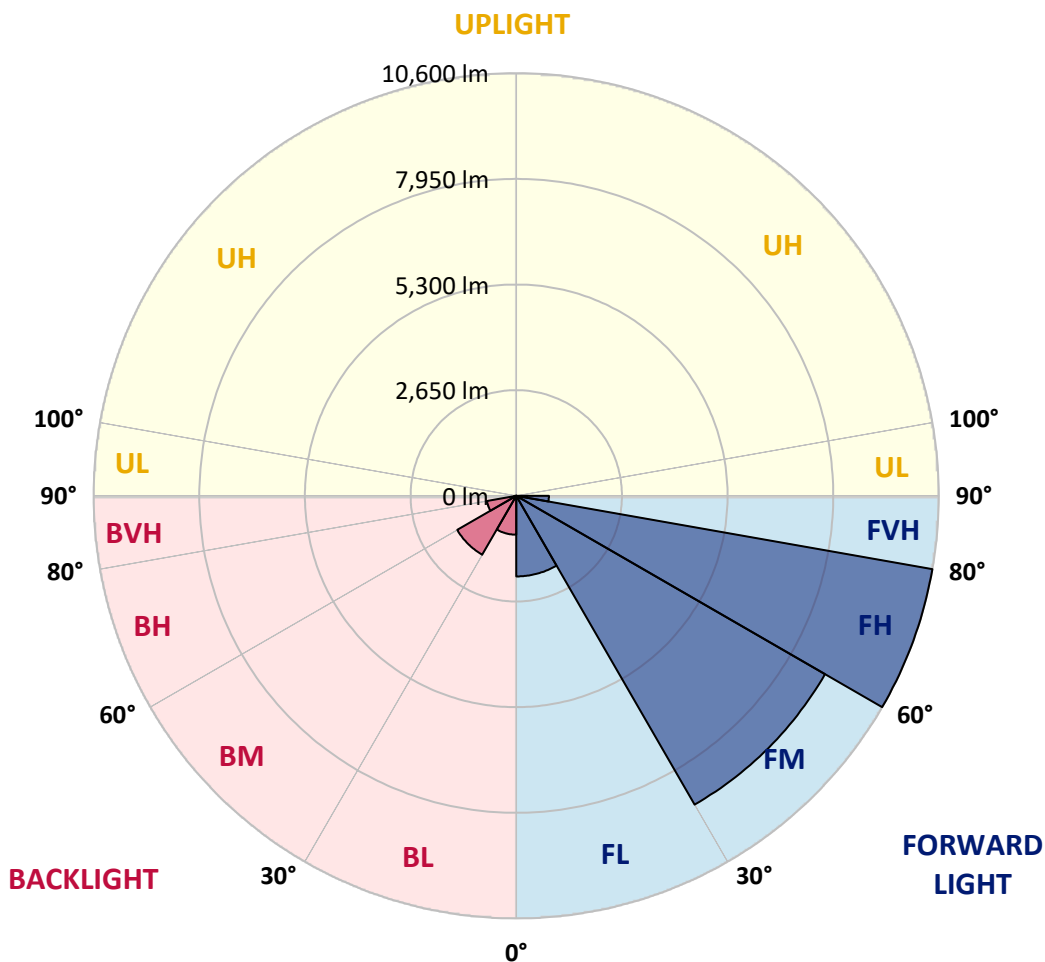


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.6	7.8			
FM (30°-60°)	8943.4	34.6			
FH (60°-80°)	10600.3	41.0			G4/12000
FVH (80°-90°)	819.1	3.2			G5
BL (0°-30°)	975.5	3.8	B2/1000		
BM (30°-60°)	1706.7	6.6	B2/2500		
BH (60°-80°)	747.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	47.0	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4
2.5°	4725.9	4749.2	4737.5	4721.5	4711.3	4701.1	4686.4	4644.1	4610.5	4574.0	4517.0
5°	4761.0	4775.5	4765.3	4744.8	4721.5	4711.3	4683.5	4628.0	4574.0	4512.7	4427.9
7.5°	4740.5	4746.3	4734.6	4709.8	4689.4	4670.4	4638.3	4576.9	4511.2	4436.7	4325.8
10°	4667.5	4689.4	4689.4	4669.0	4648.5	4638.3	4606.2	4547.7	4487.8	4403.1	4271.7
12.5°	4607.6	4631.0	4649.9	4644.1	4642.6	4642.6	4617.8	4574.0	4503.9	4423.6	4267.3
15°	4566.7	4594.4	4635.4	4658.7	4673.3	4677.7	4667.5	4629.5	4557.9	4464.4	4284.8
17.5°	4557.9	4591.5	4666.0	4717.1	4755.1	4753.6	4750.7	4698.2	4619.2	4522.8	4306.7
20°	4597.4	4641.2	4744.8	4825.2	4880.7	4870.5	4854.4	4785.8	4693.8	4585.6	4327.2
22.5°	4715.6	4761.0	4874.8	4962.5	5016.5	5016.5	4968.3	4877.8	4779.9	4658.7	4355.0
25°	4885.1	4934.7	5055.9	5145.0	5169.8	5150.9	5102.7	4993.1	4880.7	4763.9	4413.4
27.5°	5092.5	5152.3	5264.7	5339.3	5331.9	5317.4	5267.7	5127.5	5015.0	4908.4	4512.7
30°	5350.9	5394.7	5511.5	5529.1	5502.8	5499.9	5429.8	5289.6	5184.5	5102.7	4654.3
32.5°	5594.8	5634.2	5727.7	5735.0	5688.3	5694.1	5628.4	5499.9	5440.0	5410.8	4892.3
35°	5853.3	5873.8	5954.1	5945.3	5914.6	5910.2	5884.0	5761.3	5780.3	5832.9	5229.7
37.5°	6069.4	6110.4	6155.6	6162.9	6161.4	6176.1	6193.6	6135.2	6244.7	6409.7	5672.2
40°	6268.1	6303.2	6370.3	6393.7	6450.6	6479.8	6539.7	6541.2	6793.8	7065.5	6216.9
42.5°	6402.4	6462.3	6587.9	6630.2	6769.0	6856.6	6945.7	7040.7	7407.2	7756.2	6859.5
45°	6519.3	6598.1	6806.9	6938.4	7126.8	7233.4	7421.8	7620.4	8147.6	8604.7	7512.3
47.5°	6696.0	6766.1	7005.6	7237.7	7522.6	7645.2	7927.1	8223.5	8912.9	9413.8	8137.4
50°	6941.3	6983.7	7227.6	7605.8	7969.5	8127.1	8499.5	8927.5	9730.7	10212.6	8686.5
52.5°	7255.3	7272.8	7467.1	7970.9	8449.9	8645.6	9139.3	9638.7	10446.3	10906.3	9121.7
55°	7626.3	7597.1	7748.9	8357.9	8999.0	9254.6	9784.8	10358.7	11251.0	11467.1	9438.6
57.5°	7992.8	7947.5	8068.7	8828.2	9676.6	9984.8	10602.5	11100.6	11969.5	11991.4	9660.6
60°	8381.3	8347.7	8492.3	9380.2	10507.6	10872.7	11443.8	11870.2	12664.6	12356.5	9695.7
62.5°	8779.9	8725.9	8931.8	10000.9	11443.8	11775.2	12328.7	12688.0	13346.6	12492.3	9358.3
65°	9167.0	9142.2	9460.5	10738.4	12509.8	12886.6	13424.1	13668.0	13892.8	12287.9	8521.5
67.5°	9578.8	9628.5	10136.7	11722.7	13900.1	14373.3	14953.1	14723.8	14049.1	11319.6	7176.4
70°	10206.8	10238.9	11024.6	13012.2	15692.1	16263.1	16543.5	15099.1	13295.6	9481.0	5394.7
72.5°	10476.9	10618.7	11817.6	14366.0	17727.9	18076.9	17078.0	14262.3	11075.7	6440.4	2834.6
73°	10417.1	10586.5	11854.2	14571.9	17887.1	18253.6	16964.1	13831.5	10295.9	5546.6	2430.1
75°	9670.8	9879.7	11379.5	14399.6	17577.5	17358.4	15132.7	11788.4	6957.3	2522.1	1107.0
77.5°	7630.6	7690.5	9016.6	11627.8	13841.7	13435.7	11325.5	7367.7	2842.0	937.6	628.0
80°	3827.7	4048.3	5082.2	6660.9	9256.1	9123.1	7148.7	3484.5	1184.4	550.6	416.2
82.5°	1841.5	1997.8	2475.4	3248.0	5114.3	4993.1	3540.0	1904.3	752.1	321.3	245.3
85°	1185.9	1302.7	1575.8	1549.5	2103.0	2008.1	1590.4	1441.4	445.4	168.0	170.9
87.5°	782.8	857.2	1028.2	822.2	765.2	692.3	702.4	812.0	87.6	64.3	23.3
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°	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4	4543.4
2.5°	4493.6	4474.7	4411.9	4350.6	4292.2	4236.7	4200.2	4151.9	4119.8	4128.6	4141.7
5°	4381.2	4338.8	4227.9	4119.8	4017.6	3896.4	3798.5	3719.6	3659.7	3637.9	3633.5
7.5°	4263.0	4191.4	4032.2	3846.7	3672.9	3522.5	3348.7	3262.5	3161.8	3126.8	3115.0
10°	4191.4	4095.0	3871.5	3613.1	3351.6	3101.9	2913.5	2760.2	2621.4	2595.2	2582.0
12.5°	4170.9	4043.9	3743.1	3410.0	3062.5	2755.8	2476.9	2275.3	2141.0	2110.3	2065.0
15°	4159.2	4001.5	3623.3	3205.6	2764.5	2390.7	2097.1	1862.1	1739.4	1657.5	1659.0
17.5°	4149.0	3953.3	3488.9	2982.1	2507.6	2076.7	1752.5	1540.7	1428.3	1384.5	1380.1
20°	4134.4	3896.4	3334.1	2747.0	2214.0	1790.5	1496.9	1339.2	1263.2	1226.7	1225.3
22.5°	4128.6	3840.8	3182.2	2507.6	1954.1	1569.9	1327.5	1216.5	1168.3	1143.5	1143.5
25°	4143.2	3801.5	3023.0	2279.7	1723.3	1381.5	1210.7	1134.7	1107.0	1093.9	1089.5
27.5°	4188.4	3783.9	2865.3	2051.9	1511.5	1253.0	1131.8	1079.2	1058.8	1048.6	1050.0
30°	4274.6	3782.4	2710.5	1827.0	1353.8	1155.2	1069.0	1032.5	1016.4	1010.6	1009.1
32.5°	4413.4	3814.6	2558.6	1641.5	1220.9	1073.4	1010.6	984.3	977.0	972.6	971.2
35°	4648.5	3905.1	2408.2	1472.1	1118.7	1000.4	955.1	941.9	931.8	936.2	937.6
37.5°	4965.4	4061.4	2265.1	1339.2	1041.2	946.3	908.4	896.7	890.8	895.2	899.6
40°	5390.3	4286.3	2145.3	1232.6	985.8	901.1	867.5	857.2	851.4	858.7	860.2
42.5°	5859.2	4546.3	2046.1	1149.4	940.5	863.1	831.0	819.3	814.9	819.3	820.7
45°	6341.1	4848.6	1994.9	1089.5	902.6	835.4	801.8	788.6	778.4	775.5	779.9
47.5°	6815.7	5111.4	1993.4	1053.0	871.9	810.6	774.0	759.4	746.3	739.0	737.5
50°	7202.7	5320.3	2028.5	1036.9	845.6	782.8	746.3	731.6	714.2	699.5	702.4
52.5°	7494.8	5456.1	2044.6	1029.6	831.0	753.6	717.1	703.9	683.5	664.5	664.5
55°	7683.2	5488.2	2005.1	1022.3	819.3	722.9	683.5	671.8	651.4	632.4	632.4
57.5°	7747.5	5388.9	1863.5	1004.7	807.6	696.6	649.9	639.6	623.6	604.6	601.7
60°	7598.5	5053.0	1615.2	952.2	784.3	668.8	613.4	609.0	603.1	587.1	585.6
62.5°	7024.5	4340.3	1345.0	883.5	744.8	639.6	579.8	587.1	591.5	582.7	581.2
65°	6069.4	3524.0	1149.4	788.6	692.3	598.8	543.2	562.3	573.9	573.9	571.0
67.5°	4923.0	2706.1	968.3	706.8	626.5	543.2	502.4	517.0	525.8	522.8	530.1
70°	3499.1	1832.8	788.6	613.4	543.2	480.4	449.8	449.8	444.0	441.1	441.1
72.5°	1697.0	1047.1	639.6	512.6	463.0	410.4	385.5	375.3	363.6	362.2	354.9
73°	1418.1	939.1	610.4	493.6	444.0	400.1	372.4	356.3	349.1	343.2	341.7
75°	863.1	712.7	509.7	416.2	378.3	344.7	319.9	305.2	297.9	293.5	292.1
77.5°	568.1	531.6	395.8	318.4	289.2	268.7	258.5	243.9	239.5	233.6	233.6
80°	423.5	406.0	283.3	224.9	207.4	189.9	186.9	184.0	172.3	165.1	162.1
82.5°	273.1	289.2	192.8	150.4	131.5	116.8	118.3	122.7	111.0	100.8	97.9
85°	194.3	208.8	116.8	68.7	55.5	48.2	54.0	48.2	49.6	39.5	32.1
87.5°	32.1	55.5	20.4	8.8	4.4	2.9	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)