

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: P648042

Luminaire Tested: **GALN-SA7A-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24895.5 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

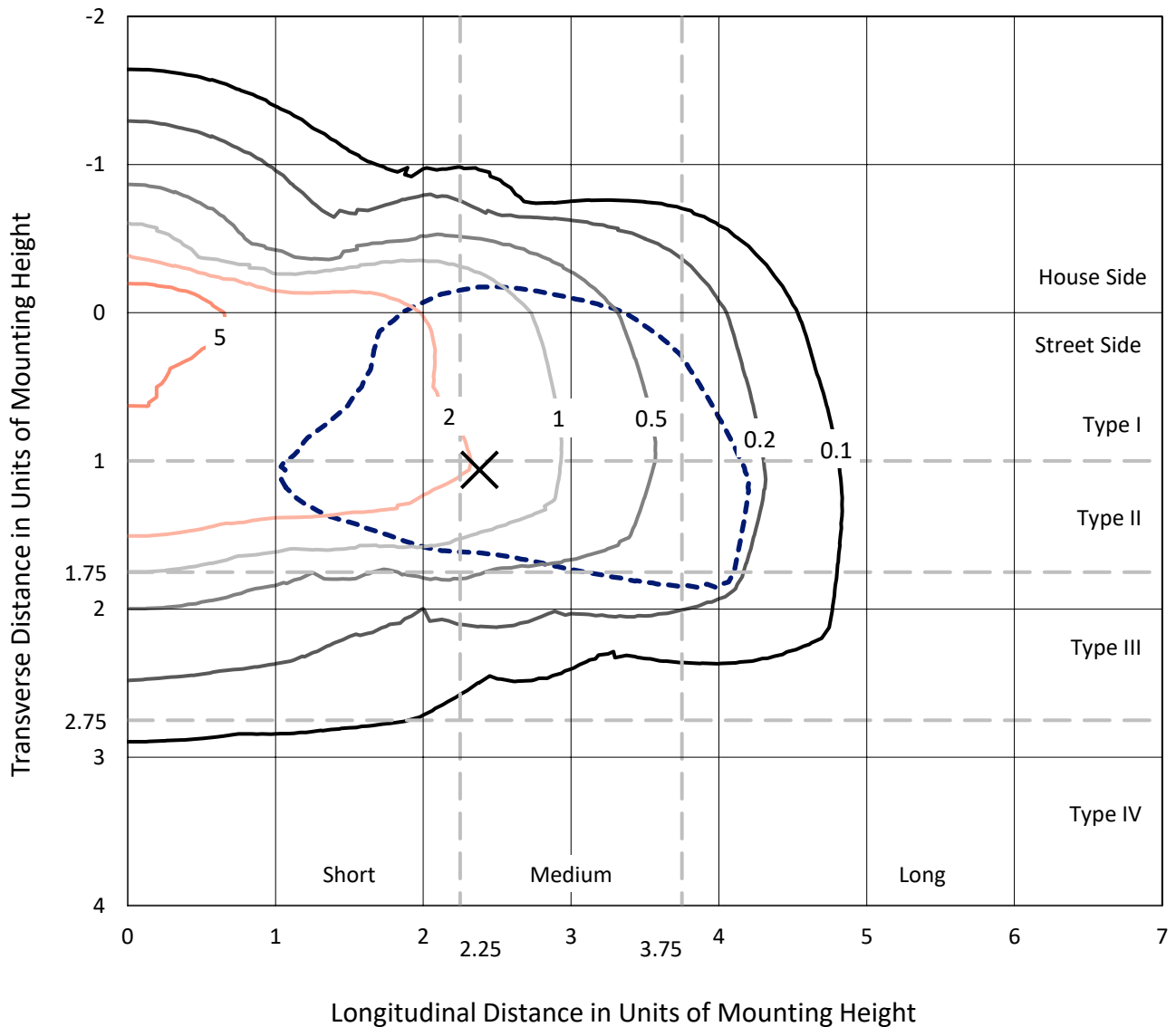
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

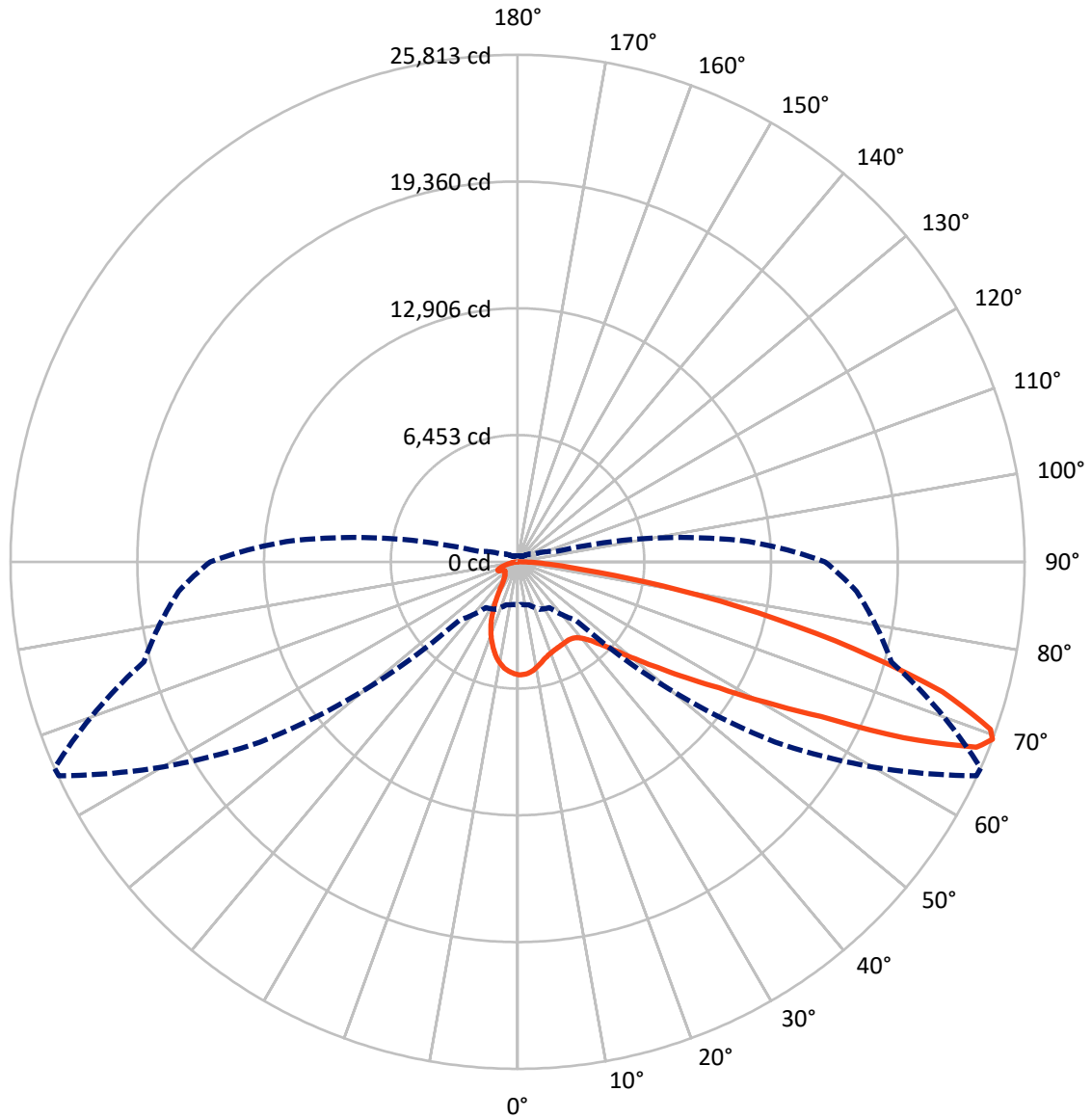
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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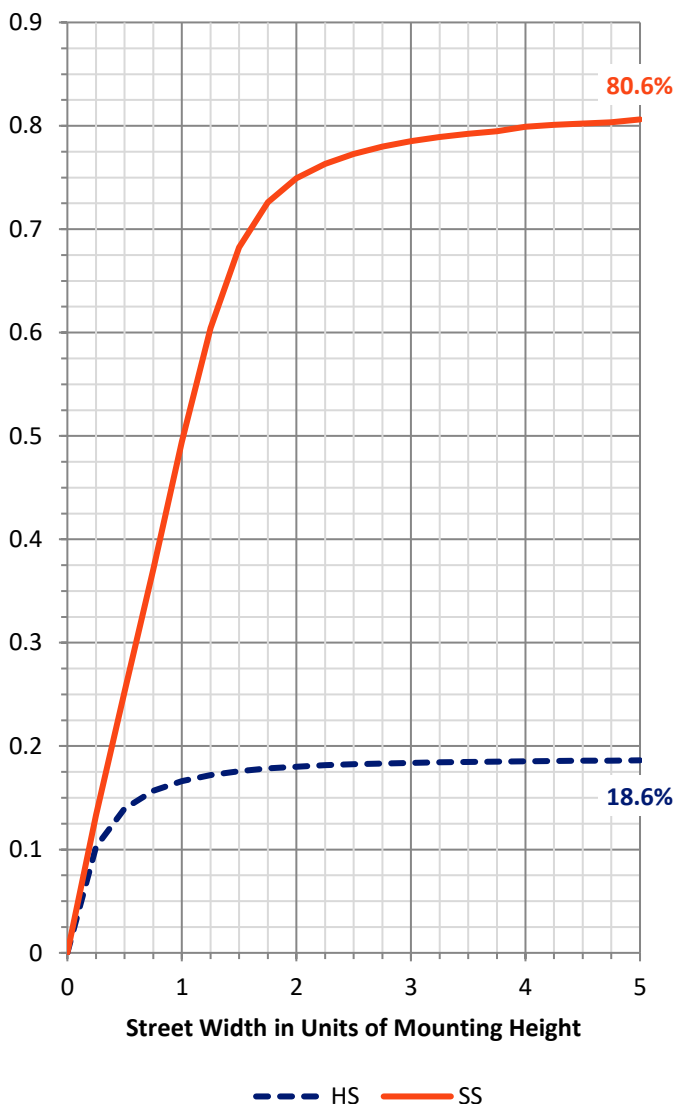
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4681.9	0.0	4681.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20213.6	0.0	20213.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	24895.5	0.0	24895.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	2.0
10°-20°	1184.2	4.8
20°-30°	1612.1	6.5
30°-40°	2166.3	8.7
40°-50°	3234.6	13.0
50°-60°	5145.2	20.7
60°-70°	6328.3	25.4
70°-80°	4117.5	16.5
80°-90°	608.0	2.4
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°	24895.5	100.0
0°-180°	24895.5	100.0

Coefficient of Utilization

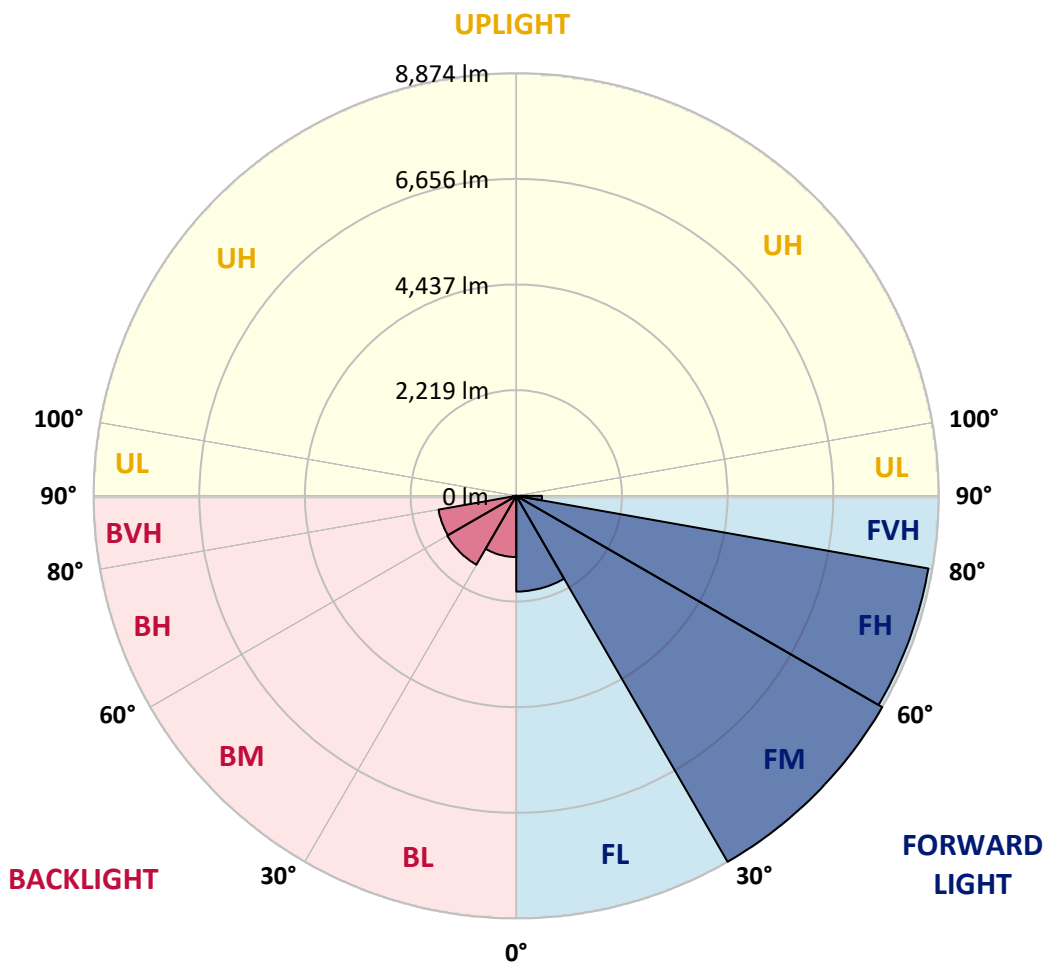


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.3	8.1			
FM (30°-60°)	8874.5	35.6			
FH (60°-80°)	8788.2	35.3			G4/12000
FVH (80°-90°)	540.6	2.2			G4/750
BL (0°-30°)	1285.2	5.2	B3/2500		
BM (30°-60°)	1671.6	6.7	B2/2500		
BH (60°-80°)	1657.6	6.7	B3/2500		G3/2500
BVH (80°-90°)	67.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0
2.5°	5547.8	5569.9	5594.6	5622.3	5674.6	5703.5	5724.3	5747.7	5750.4	5762.9	5753.2
5°	5138.3	5164.5	5201.7	5254.1	5332.7	5455.4	5582.2	5685.7	5698.0	5756.0	5772.5
7.5°	4796.4	4811.5	4841.9	4926.0	5037.7	5174.1	5358.9	5568.5	5598.8	5736.6	5784.9
10°	4517.9	4533.1	4568.9	4655.8	4766.0	4937.0	5139.7	5415.4	5440.2	5677.4	5787.7
12.5°	4309.7	4323.5	4362.1	4447.6	4574.4	4734.3	4957.7	5250.0	5285.8	5598.8	5761.5
15°	4151.2	4177.4	4209.1	4279.4	4413.1	4567.6	4784.0	5098.3	5127.2	5516.1	5743.5
17.5°	4083.7	4096.0	4118.1	4182.9	4280.7	4432.4	4650.2	4979.7	5014.3	5458.1	5739.4
20°	4086.4	4098.8	4102.9	4138.8	4209.1	4340.1	4555.1	4886.0	4927.3	5407.2	5746.3
22.5°	4180.1	4181.5	4166.3	4154.0	4181.5	4290.4	4487.6	4815.7	4863.9	5385.1	5751.8
25°	4324.9	4349.7	4327.6	4269.8	4218.7	4271.1	4461.4	4777.1	4822.6	5353.4	5744.9
27.5°	4559.3	4563.4	4545.5	4466.9	4334.5	4295.9	4450.3	4748.1	4786.7	5330.0	5710.4
30°	4873.6	4861.2	4844.7	4757.8	4549.6	4391.1	4473.8	4722.0	4761.9	5295.5	5669.1
32.5°	5192.1	5230.7	5215.5	5113.5	4843.2	4575.8	4549.6	4719.2	4752.3	5269.3	5623.6
35°	5529.9	5547.8	5619.4	5567.1	5289.9	4875.0	4691.6	4761.9	4788.1	5270.7	5591.9
37.5°	5794.6	5842.8	6011.0	6056.5	5795.9	5270.7	4921.9	4883.3	4894.3	5338.2	5604.3
40°	6114.4	6197.1	6413.6	6599.7	6428.7	5784.9	5313.4	5108.0	5121.8	5500.9	5685.7
42.5°	6519.7	6577.7	6868.6	7120.8	7093.3	6464.6	5787.7	5476.1	5483.0	5824.9	5913.1
45°	6994.0	7076.8	7403.5	7782.6	7847.4	7233.9	6472.8	6033.1	6028.9	6328.1	6337.8
47.5°	7600.6	7651.6	7975.6	8389.2	8651.1	8200.4	7304.2	6832.7	6788.6	7061.6	6983.0
50°	8158.9	8239.0	8484.4	8936.5	9588.7	9332.3	8397.5	7869.5	7766.0	8021.1	7888.7
52.5°	8393.4	8477.5	8684.3	9245.4	10392.4	10796.4	9785.8	9106.1	8933.8	9129.5	9081.3
55°	7986.7	8095.6	8288.6	8971.0	10745.3	12485.2	11658.0	10535.8	10410.4	10326.3	10340.1
57.5°	6893.4	6996.7	7257.3	8010.1	10323.5	13710.9	14331.2	12373.6	12104.7	11717.4	11783.5
60°	5247.2	5312.0	5447.1	6281.2	9073.0	14029.3	17367.1	14696.6	14525.7	13102.9	13149.8
62.5°	3726.5	3799.6	3893.4	4309.7	6642.4	13131.8	19744.0	17940.6	17329.9	14538.1	14492.6
65°	3026.2	2976.6	3089.6	3284.0	3897.5	10177.4	20278.8	22443.4	21602.4	16428.3	15796.8
67.5°	2488.5	2436.1	2547.8	2893.8	2964.1	5907.6	18351.5	25366.1	25198.0	18483.8	17121.7
69°	2203.1	2175.6	2273.4	2667.8	2845.6	4195.3	15987.1	25772.9	25812.8	19695.7	17325.8
70°	1985.3	1996.3	2091.5	2553.3	2791.8	3459.1	13664.0	25211.7	25550.9	20300.9	17105.2
72.5°	1461.4	1484.8	1617.2	2114.9	2740.8	2935.2	8131.4	22021.5	22621.3	20336.8	15647.9
75°	1021.6	1010.5	1127.8	1592.4	2589.1	2909.0	4775.8	17030.7	17710.4	17578.0	13148.4
77.5°	668.7	686.6	780.3	1125.0	2178.3	2886.9	3113.1	12082.7	12523.9	11756.0	7777.1
80°	471.5	470.1	522.5	767.9	1615.8	2773.9	2549.1	7615.8	7504.1	4619.9	2306.5
82.5°	270.2	289.6	350.2	540.4	1080.9	2441.6	2345.1	3642.4	3325.3	1316.6	778.9
85°	150.3	157.1	208.2	326.7	631.4	1839.1	2047.3	1657.1	1563.4	550.1	335.0
87.5°	48.2	52.4	86.8	165.4	286.7	868.6	1159.5	765.1	705.9	198.5	135.1
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°	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0	5749.0
2.5°	5757.3	5773.8	5729.8	5687.0	5648.4	5594.6	5546.4	5506.4	5478.8	5474.7	5461.0
5°	5776.7	5778.0	5693.9	5580.8	5470.6	5349.2	5223.8	5134.2	5050.0	5003.2	4979.7
7.5°	5790.4	5778.0	5626.3	5443.0	5230.7	5010.1	4789.5	4613.0	4476.6	4422.8	4443.4
10°	5784.9	5746.3	5524.3	5230.7	4921.9	4592.4	4275.3	4027.1	3799.6	3682.4	3685.2
12.5°	5754.6	5691.2	5372.7	4992.2	4538.6	4097.4	3612.1	3277.1	3013.8	2858.0	2809.7
15°	5728.3	5618.1	5194.8	4668.2	4104.3	3474.2	2882.8	2469.2	2248.6	2125.9	2124.5
17.5°	5700.8	5547.8	5000.5	4324.9	3605.2	2794.6	2174.2	1858.5	1755.0	1767.5	1746.8
20°	5671.8	5465.0	4797.8	3943.0	2997.2	2084.6	1628.2	1500.0	1529.0	1585.5	1593.7
22.5°	5638.8	5376.8	4579.9	3522.5	2357.5	1568.9	1320.8	1301.5	1375.9	1464.1	1476.6
25°	5587.7	5266.5	4305.6	3082.7	1818.4	1264.2	1156.7	1170.5	1243.6	1318.0	1326.2
27.5°	5516.1	5130.1	4028.5	2534.0	1366.3	1085.0	1057.4	1075.4	1111.2	1156.7	1167.8
30°	5419.5	4975.7	3710.0	2059.8	1094.6	995.4	984.4	994.0	1014.7	1034.0	1039.5
32.5°	5323.1	4826.7	3388.7	1577.2	976.1	936.2	925.1	925.1	925.1	927.9	929.2
35°	5233.4	4686.1	3044.1	1228.4	914.1	889.3	874.1	857.5	854.8	845.1	845.1
37.5°	5183.8	4557.9	2677.4	1028.5	868.6	850.7	830.0	802.4	787.2	788.6	785.8
40°	5193.5	4473.8	2343.8	915.4	831.3	812.0	780.3	748.6	739.0	739.0	736.2
42.5°	5302.4	4446.2	2023.9	856.1	795.5	773.4	733.4	704.5	699.0	697.6	700.4
45°	5553.3	4513.8	1737.2	817.5	765.1	732.1	692.1	665.9	660.4	660.4	659.0
47.5°	6042.7	4733.0	1531.7	792.7	743.1	700.4	659.0	632.8	623.2	620.4	620.4
50°	6803.7	5208.6	1378.7	770.7	715.5	671.4	628.7	598.4	583.2	581.8	580.4
52.5°	7861.2	5950.3	1319.4	754.1	685.2	641.1	594.2	565.2	546.0	541.8	539.1
55°	9097.8	6985.7	1400.7	741.7	653.5	606.6	558.4	528.1	510.1	501.8	500.5
57.5°	10530.3	8229.3	1709.5	725.2	624.5	569.4	522.5	492.2	472.9	463.2	460.5
60°	11816.6	9507.3	2248.6	715.5	599.7	529.4	481.2	453.6	435.7	426.0	424.6
62.5°	13229.7	10726.1	2892.5	741.7	588.7	490.8	442.6	417.7	402.5	392.9	392.9
65°	14739.3	11946.2	3318.4	830.0	605.3	460.5	401.2	380.5	366.8	359.9	358.5
67.5°	15756.9	12368.0	2733.9	921.0	646.6	427.4	361.2	344.7	336.4	329.5	329.5
69°	15646.5	11834.5	2017.0	944.4	659.0	410.8	339.1	326.7	315.7	313.0	310.2
70°	15297.7	11226.5	1690.3	929.2	649.3	395.6	325.3	310.2	300.5	297.8	296.4
72.5°	13625.4	9736.2	1258.8	807.9	552.9	343.3	288.1	274.4	266.1	261.9	261.9
75°	11320.3	7957.7	983.0	642.5	432.9	289.6	246.8	235.8	228.9	226.1	224.7
77.5°	6344.6	4443.4	705.9	503.2	328.2	234.4	206.8	197.2	190.3	187.5	187.5
80°	1767.5	1269.8	415.0	332.2	223.3	177.8	164.0	157.1	147.5	140.6	144.8
82.5°	665.9	550.1	237.1	199.9	142.0	118.5	114.4	108.9	104.8	95.1	95.1
85°	324.0	267.5	151.7	106.2	78.6	62.0	59.3	56.5	53.8	46.9	48.2
87.5°	111.7	118.5	66.2	38.6	23.4	15.2	12.4	6.9	6.9	6.9	6.9
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)