

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: P647991

Luminaire Tested: **GALN-SA6A-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21046.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

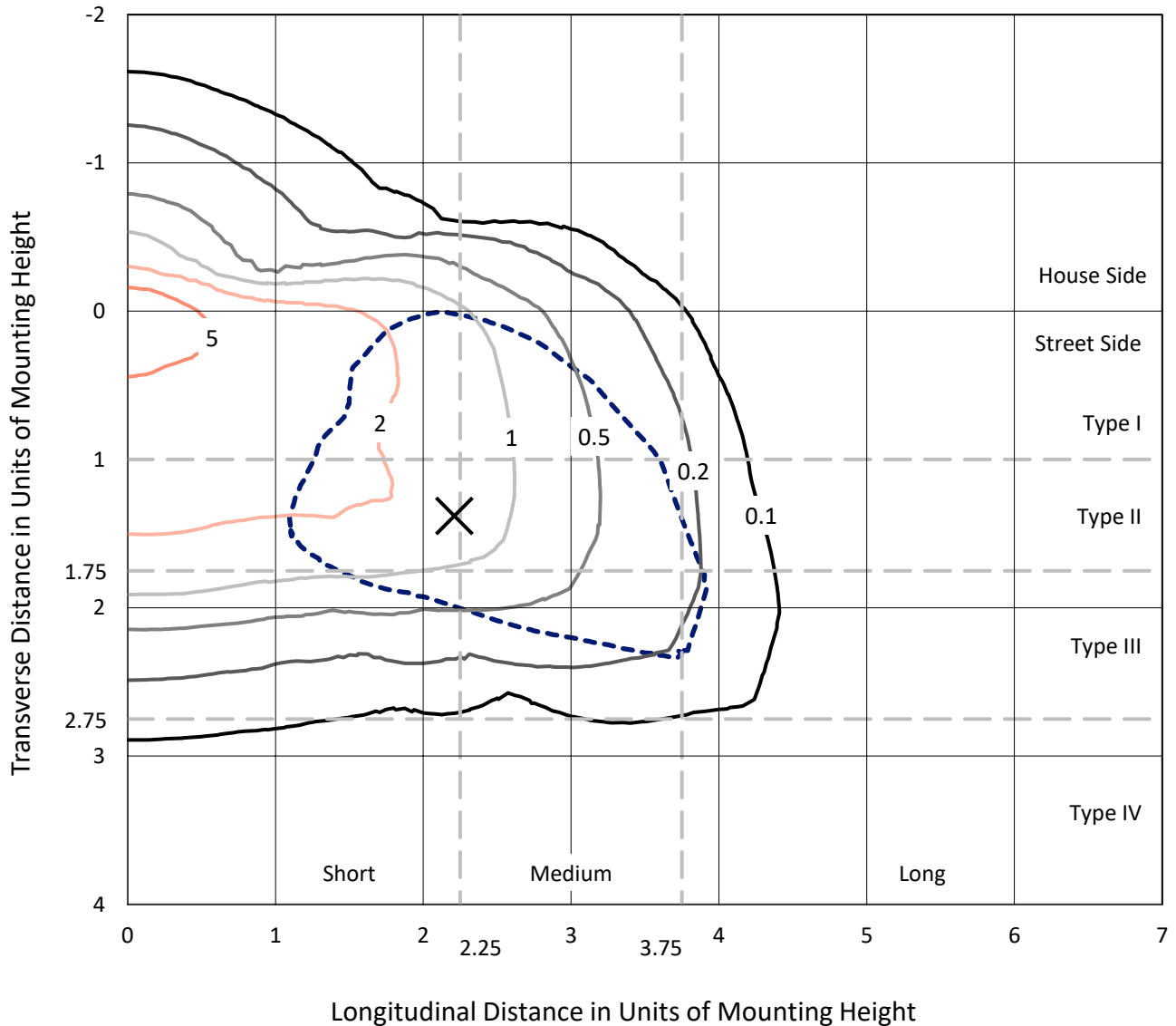
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

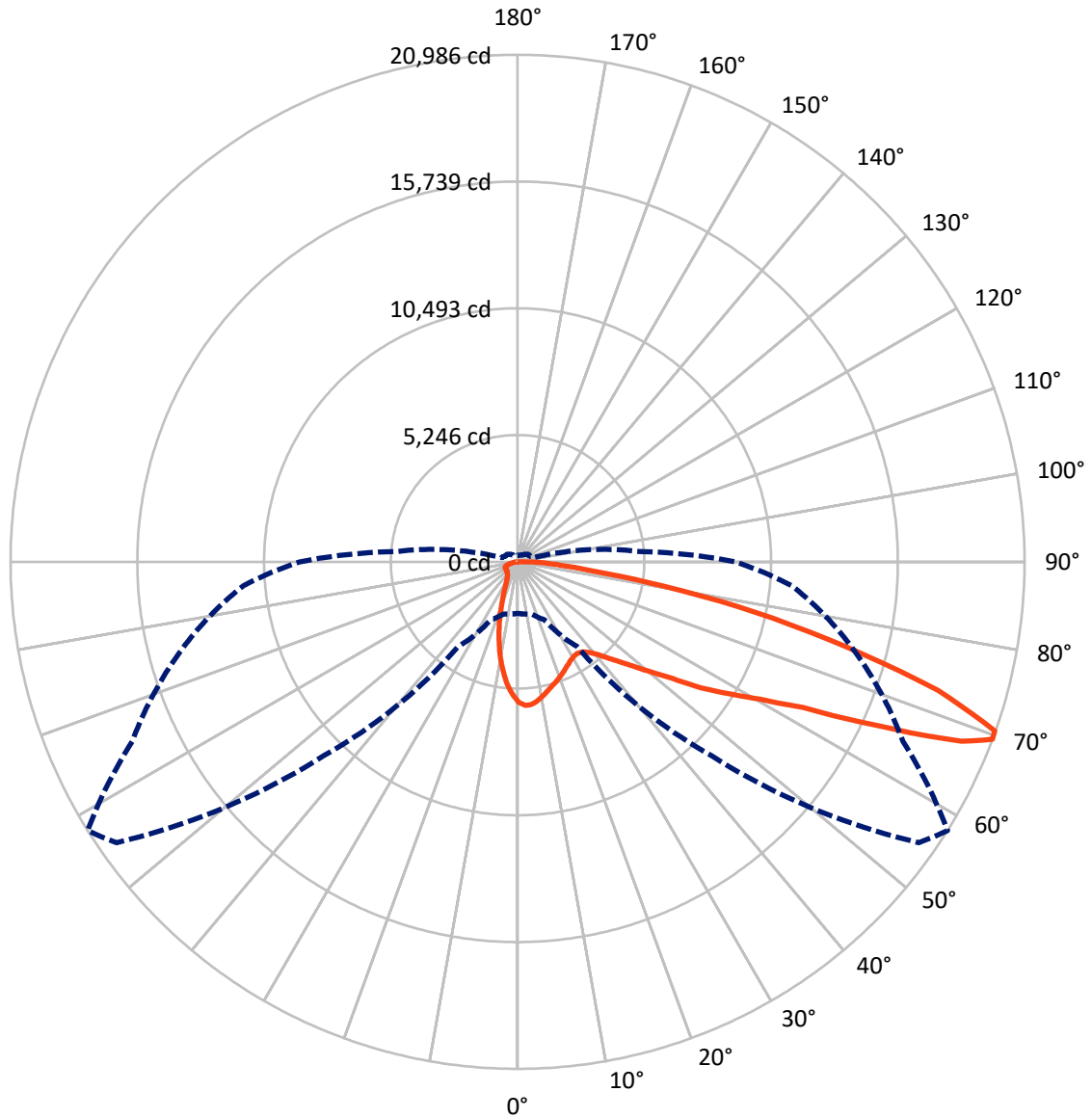
× Max cd
 - - - 1/2 Max cd



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 69-Deg Vertical

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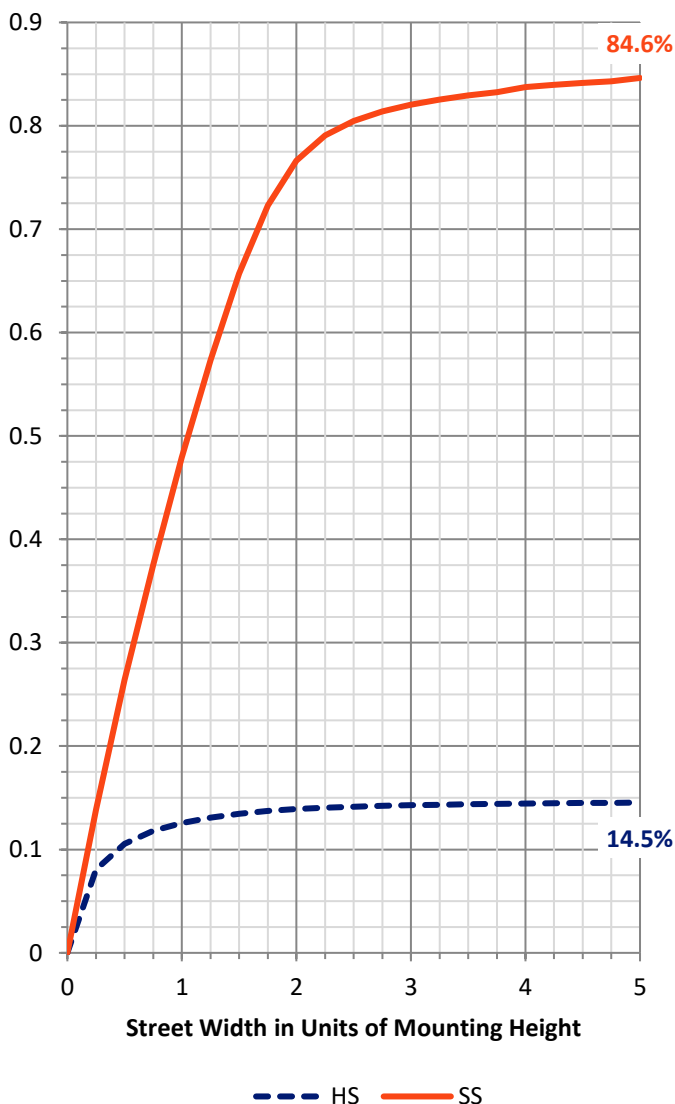
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3084.3	0.0	3084.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17961.9	0.0	17961.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	21046.3	0.0	21046.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.9	2.3
10°-20°	1084.6	5.2
20°-30°	1401.3	6.7
30°-40°	1820.0	8.6
40°-50°	2646.0	12.6
50°-60°	4222.1	20.1
60°-70°	5640.2	26.8
70°-80°	3251.3	15.4
80°-90°	487.0	2.3
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°	21046.3	100.0
0°-180°	21046.3	100.0

Coefficient of Utilization



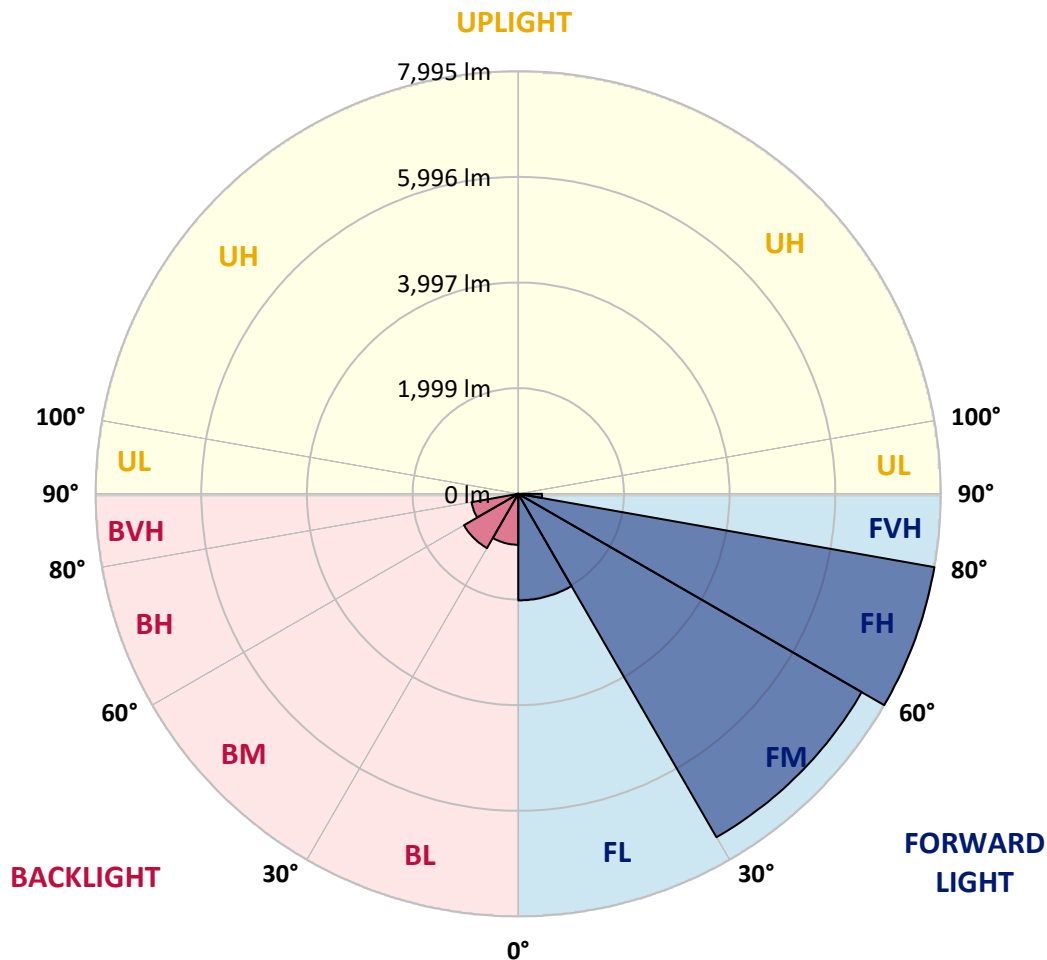
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2015.7	9.6			
FM (30°-60°)	7501.9	35.6			
FH (60°-80°)	7994.7	38.0			G4/12000
FVH (80°-90°)	449.7	2.1			G3/500
BL (0°-30°)	964.0	4.6	B2/1000		
BM (30°-60°)	1186.1	5.6	B2/2500		
BH (60°-80°)	896.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0
2.5°	6031.9	6048.4	6043.7	6037.8	6028.4	6002.6	5960.4	5953.3	5926.3	5868.7	5797.2
5°	5939.2	5953.3	5954.5	5962.7	5974.4	5969.7	5939.2	5935.7	5895.8	5818.3	5698.6
7.5°	5621.1	5639.9	5681.0	5726.8	5767.8	5806.6	5816.0	5821.8	5797.2	5708.0	5548.3
10°	5263.1	5281.9	5300.7	5368.7	5469.7	5566.0	5645.7	5656.3	5662.2	5580.0	5385.2
12.5°	4866.4	4905.1	4945.0	5046.0	5181.0	5332.4	5473.2	5495.5	5535.4	5473.2	5244.3
15°	4529.5	4569.4	4626.9	4717.3	4880.4	5098.8	5297.2	5333.6	5412.2	5380.5	5112.9
17.5°	4295.9	4310.0	4350.0	4453.2	4629.3	4859.4	5124.6	5197.4	5323.0	5314.8	5000.2
20°	4111.7	4129.3	4153.9	4217.3	4400.4	4643.3	4963.8	5057.7	5227.9	5256.0	4888.7
22.5°	4034.2	4047.1	4043.6	4077.6	4202.0	4446.2	4800.7	4912.2	5143.4	5216.2	4785.4
25°	4038.9	4050.6	4033.0	4024.8	4098.8	4272.4	4630.4	4772.5	5075.3	5189.2	4691.5
27.5°	4117.6	4125.8	4092.9	4060.0	4065.9	4164.5	4489.6	4646.9	5017.8	5200.9	4612.9
30°	4223.2	4238.5	4217.3	4177.4	4133.9	4138.6	4399.2	4554.2	4990.8	5242.0	4575.3
32.5°	4359.4	4373.4	4364.1	4332.3	4276.0	4213.8	4376.9	4520.1	4993.1	5325.3	4567.1
35°	4502.5	4530.7	4545.9	4543.6	4497.9	4389.8	4465.0	4583.5	5049.5	5465.0	4615.2
37.5°	4664.5	4688.0	4753.7	4796.0	4753.7	4628.1	4663.3	4745.5	5173.9	5666.9	4720.9
40°	4821.8	4857.0	4953.3	5084.7	5068.3	4958.0	4966.2	5020.1	5393.4	5967.4	4927.4
42.5°	4986.1	5028.3	5196.2	5391.0	5429.8	5344.1	5366.4	5414.5	5705.6	6384.0	5281.9
45°	5197.4	5247.8	5454.5	5697.4	5850.0	5797.2	5860.5	5884.0	6123.5	6926.3	5749.0
47.5°	5469.7	5528.4	5783.1	6085.9	6301.9	6350.0	6460.4	6446.3	6641.1	7568.4	6354.7
50°	5928.6	5961.5	6202.1	6510.8	6807.8	7024.9	7144.6	7167.0	7283.2	8192.8	7032.0
52.5°	6474.4	6503.8	6677.5	6947.5	7319.6	7779.7	8075.4	8002.7	8030.8	8953.4	7824.3
55°	7088.3	7137.6	7247.9	7427.5	7909.9	8587.2	9181.1	9198.7	8886.5	9681.1	8583.6
57.5°	7563.7	7647.0	7836.0	8091.8	8703.4	9485.1	10283.3	10295.0	9895.9	10458.1	9421.8
60°	7324.3	7422.8	7854.7	8478.0	9744.5	11052.0	11600.2	11533.3	10878.4	11343.2	10444.0
62.5°	6291.3	6308.9	6936.9	7911.1	10064.9	13148.4	13560.4	13277.5	12189.4	12465.3	11482.9
65°	4071.8	4186.8	4684.5	6049.5	9012.1	14311.6	16994.8	16341.0	14027.5	13738.8	12352.6
67.5°	2570.5	2541.1	2747.8	3454.4	6198.6	13286.9	19925.6	19822.3	16431.4	14542.8	12144.8
69°	2131.6	2164.4	2234.8	2648.0	4265.4	11344.3	20271.9	20985.6	17596.9	14479.5	11390.1
70°	1933.1	1948.4	2022.4	2347.5	3291.2	9501.5	19703.8	20953.9	18054.7	14214.2	10843.1
72.5°	1534.1	1533.0	1659.7	1953.1	2460.2	5423.9	16179.1	18192.0	17543.0	12979.4	8959.2
75°	1165.6	1184.3	1324.0	1652.7	2266.6	2963.7	11290.3	14009.9	14011.1	10251.6	5590.6
77.5°	840.4	852.1	1015.3	1387.4	2135.1	2402.7	7520.2	10048.5	9446.3	4697.4	1757.1
80°	550.5	557.5	681.9	1098.6	1924.9	2266.6	4459.1	6150.5	4455.6	1246.5	581.0
82.5°	301.7	336.8	416.7	711.3	1544.6	2094.0	2710.2	3112.8	1671.4	555.1	302.9
85°	151.4	160.8	234.7	415.5	1009.4	1732.5	1887.4	1785.3	862.7	275.9	157.3
87.5°	44.6	56.4	97.4	160.8	409.7	902.6	1050.5	942.5	332.1	99.8	32.9
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°	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0	5816.0
2.5°	5767.8	5746.7	5652.8	5568.3	5490.8	5408.7	5339.4	5278.4	5284.2	5285.4	5223.2
5°	5636.3	5588.3	5409.8	5243.1	5102.3	4923.9	4771.3	4672.7	4623.4	4557.7	4581.2
7.5°	5458.0	5365.2	5117.5	4840.6	4581.2	4350.0	4098.8	3926.2	3815.9	3709.1	3723.2
10°	5273.7	5124.6	4764.2	4398.0	4062.4	3692.6	3372.2	3097.5	2893.3	2817.0	2766.6
12.5°	5084.7	4888.7	4430.9	3943.8	3480.2	3037.6	2583.4	2288.8	2063.4	1943.7	1959.0
15°	4912.2	4673.9	4083.5	3489.6	2887.5	2360.4	1907.4	1626.8	1469.5	1436.6	1455.4
17.5°	4752.5	4440.3	3758.4	3048.2	2345.2	1770.0	1433.1	1274.7	1211.3	1193.7	1192.5
20°	4588.2	4242.0	3393.3	2576.4	1827.5	1372.1	1176.1	1102.2	1090.4	1097.5	1098.6
22.5°	4421.5	3996.7	3017.8	2108.1	1455.4	1122.1	1028.2	1008.3	1017.7	1034.1	1036.5
25°	4267.7	3780.6	2656.2	1697.2	1162.1	986.0	940.1	940.1	961.3	986.0	987.1
27.5°	4141.0	3571.7	2295.8	1347.5	973.0	887.4	872.1	880.3	909.7	928.4	929.6
30°	4036.5	3376.9	1955.5	1079.8	855.7	808.7	805.2	819.3	840.4	858.0	859.2
32.5°	3957.9	3205.5	1637.4	907.3	774.7	748.9	747.7	758.3	770.0	774.7	779.4
35°	3927.4	3063.5	1346.3	798.2	720.7	704.2	704.2	703.1	707.8	710.1	712.5
37.5°	3952.0	2954.3	1120.9	727.7	680.7	669.1	662.0	655.0	652.6	652.6	653.8
40°	4056.5	2896.9	953.1	681.9	652.6	635.0	622.1	613.9	605.7	608.0	610.3
42.5°	4278.3	2907.4	839.2	651.5	628.0	603.3	584.5	575.1	569.2	576.3	575.1
45°	4631.6	3013.1	766.5	630.3	603.3	571.6	554.1	544.7	544.7	555.1	558.7
47.5°	5125.8	3214.9	727.7	613.9	584.5	547.0	529.4	522.3	524.7	542.3	543.5
50°	5729.1	3565.9	720.7	605.7	575.1	529.4	509.4	502.4	508.2	527.0	529.4
52.5°	6394.6	4017.7	754.7	606.8	566.9	518.8	493.0	482.4	488.3	503.5	508.2
55°	7183.4	4583.5	842.7	611.5	555.1	512.9	481.2	457.7	464.8	475.4	476.5
57.5°	7988.6	5297.2	997.7	612.7	545.8	502.4	461.3	430.8	430.8	437.8	441.3
60°	8972.2	6074.2	1201.9	613.9	547.0	487.1	434.3	400.3	395.6	399.1	400.3
62.5°	9948.7	6724.4	1236.0	610.3	558.7	471.8	405.0	369.7	361.5	360.3	358.0
65°	10379.5	6603.5	1013.0	593.9	571.6	462.4	381.5	340.4	326.3	321.6	321.6
67.5°	9677.6	5585.9	761.8	571.6	563.4	453.0	359.2	315.7	299.3	289.9	289.9
69°	9018.0	4968.5	684.3	556.3	542.3	437.8	345.1	302.9	282.9	272.3	268.8
70°	8508.5	4543.6	651.5	543.5	522.3	420.2	334.5	293.5	271.2	259.4	257.1
72.5°	6790.2	3564.7	570.4	494.2	444.8	353.3	297.0	264.1	243.0	230.0	226.5
75°	3913.3	1932.0	473.0	429.6	358.0	274.7	251.2	230.0	213.6	201.9	198.3
77.5°	1204.3	746.5	342.7	339.2	262.9	212.4	200.7	192.5	180.8	167.9	165.5
80°	507.1	380.3	232.4	228.9	174.9	147.9	144.4	143.2	138.5	127.9	124.4
82.5°	278.2	214.8	162.0	140.9	105.6	85.7	89.2	90.4	86.8	76.3	69.2
85°	136.2	117.4	78.6	63.3	48.2	30.5	29.4	35.2	32.9	23.5	25.8
87.5°	27.0	32.9	21.1	9.4	4.7	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)