

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: P650851

Luminaire Tested: **GALN-SA4C-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650851
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-SA4C-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 23183 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

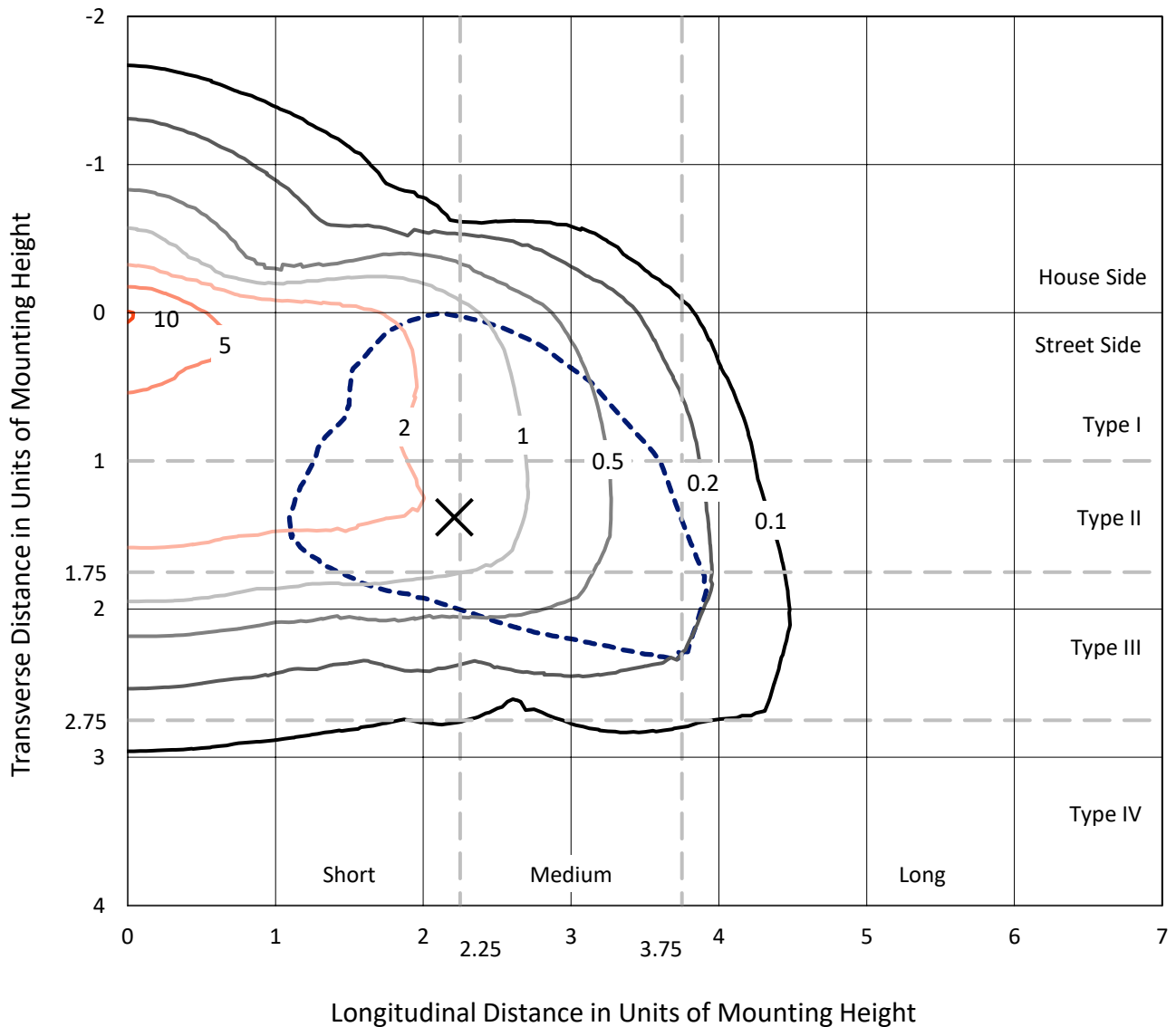
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

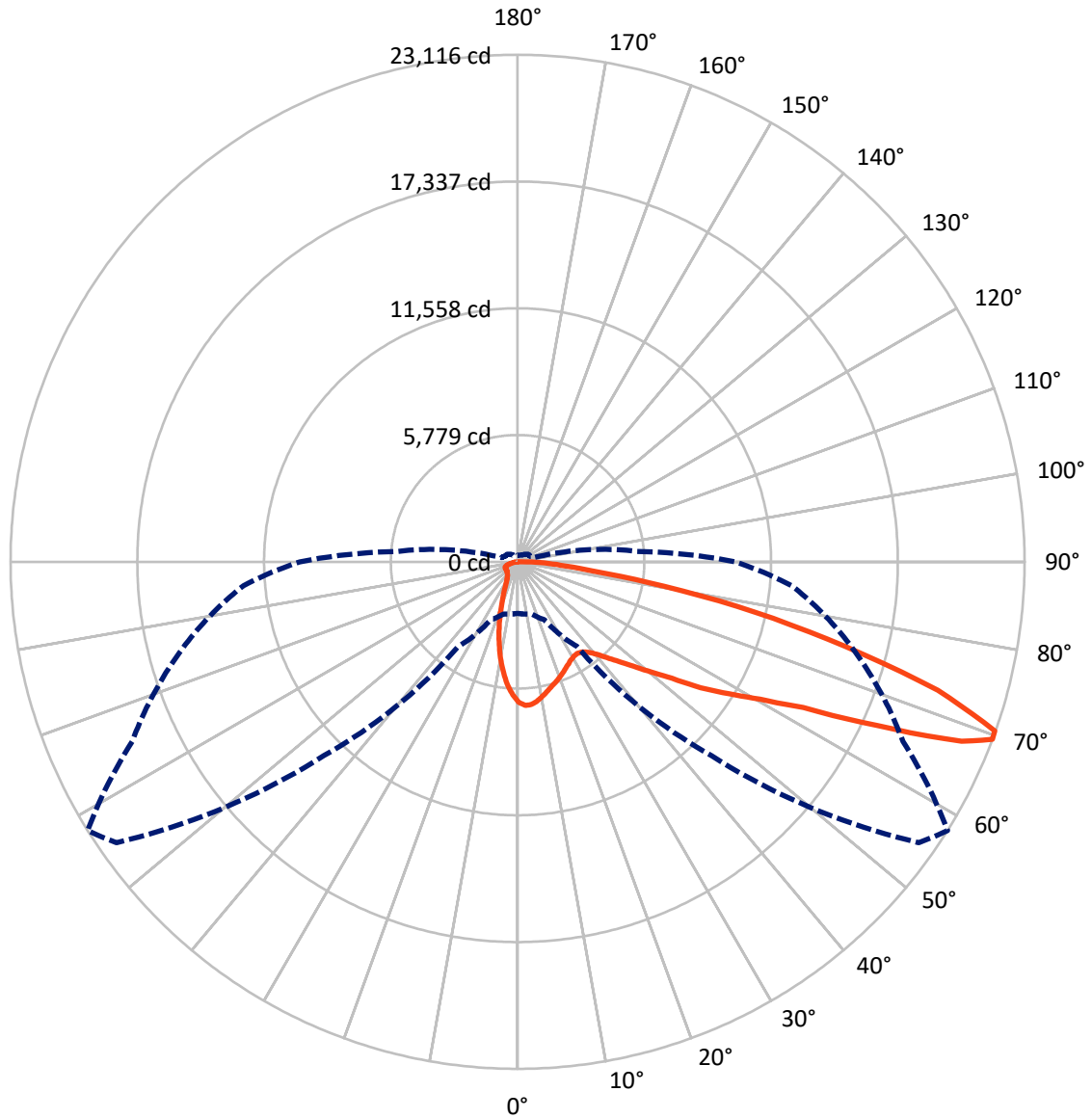
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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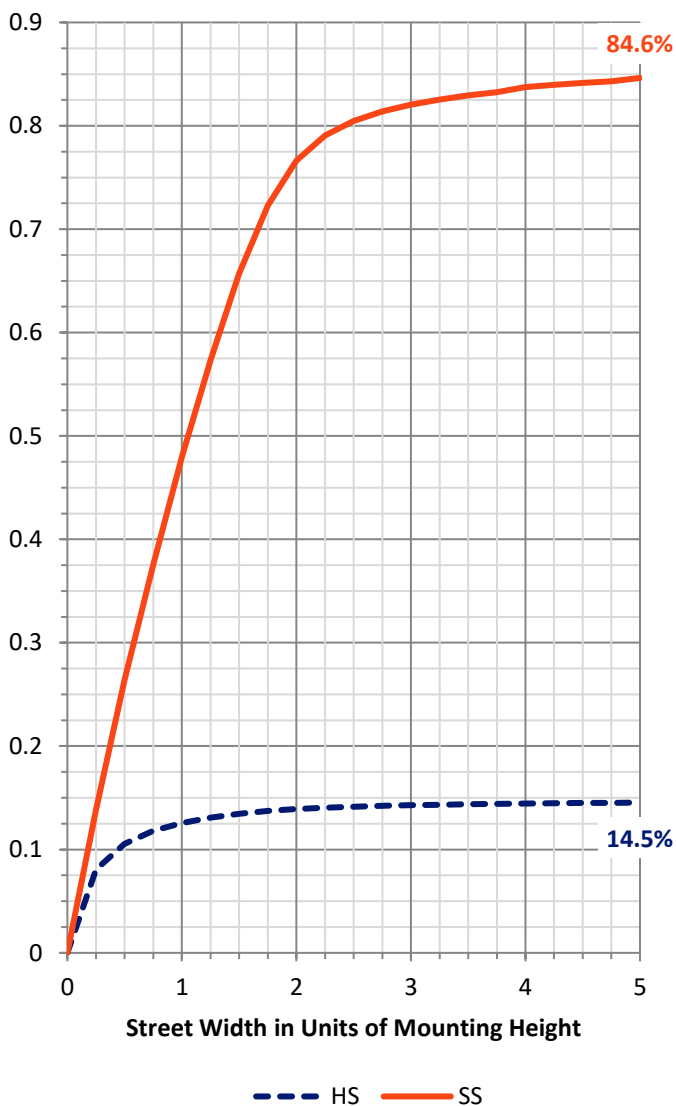
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3397.5	0.0	3397.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19785.5	0.0	19785.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	23183.0	0.0	23183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.1	2.3
10°-20°	1194.7	5.2
20°-30°	1543.5	6.7
30°-40°	2004.7	8.6
40°-50°	2914.6	12.6
50°-60°	4650.7	20.1
60°-70°	6212.8	26.8
70°-80°	3581.4	15.4
80°-90°	536.4	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°	23183.0	100.0
0°-180°	23183.0	100.0

Coefficient of Utilization

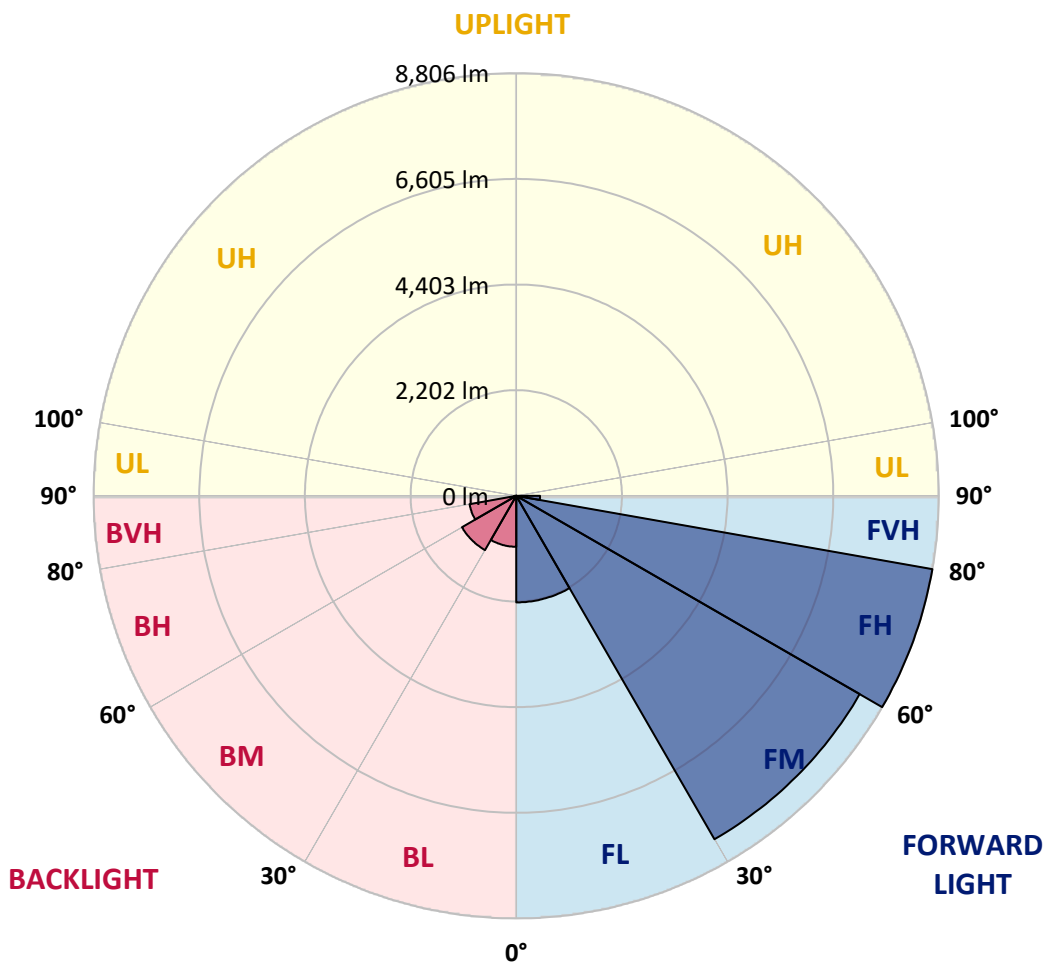


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.3	9.6			
FM (30°-60°)	8263.5	35.6			
FH (60°-80°)	8806.3	38.0			G4/12000
FVH (80°-90°)	495.3	2.1			G3/500
BL (0°-30°)	1061.9	4.6	B3/2500		
BM (30°-60°)	1306.5	5.6	B2/2500		
BH (60°-80°)	987.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	41.1	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4
2.5°	6644.3	6662.4	6657.3	6650.8	6640.5	6612.0	6565.4	6557.7	6527.9	6464.6	6385.7
5°	6542.2	6557.7	6559.0	6568.0	6581.0	6575.8	6542.2	6538.3	6494.4	6409.0	6277.1
7.5°	6191.8	6212.5	6257.7	6308.2	6353.4	6396.1	6406.4	6412.9	6385.7	6287.5	6111.6
10°	5797.4	5818.1	5838.8	5913.8	6025.0	6131.1	6218.9	6230.5	6237.0	6146.5	5931.9
12.5°	5360.4	5403.1	5447.1	5558.3	5706.9	5873.7	6028.9	6053.4	6097.4	6028.9	5776.7
15°	4989.4	5033.4	5096.7	5196.3	5376.0	5616.5	5834.9	5875.1	5961.7	5926.8	5631.9
17.5°	4732.1	4747.6	4791.6	4905.4	5099.3	5352.7	5644.9	5725.0	5863.4	5854.4	5507.9
20°	4529.1	4548.5	4575.6	4645.4	4847.2	5114.8	5467.8	5571.2	5758.7	5789.7	5385.0
22.5°	4443.8	4458.0	4454.1	4491.6	4628.7	4897.6	5288.0	5410.9	5665.6	5745.7	5271.2
25°	4449.0	4461.8	4442.5	4433.4	4514.9	4706.2	5100.6	5257.0	5590.6	5716.0	5167.8
27.5°	4535.6	4544.6	4508.4	4472.2	4478.7	4587.3	4945.4	5118.7	5527.2	5729.0	5081.2
30°	4651.9	4668.7	4645.4	4601.5	4553.7	4558.8	4845.8	5016.6	5497.5	5774.2	5039.8
32.5°	4801.9	4817.4	4807.1	4772.2	4710.1	4641.6	4821.3	4979.1	5500.1	5866.0	5030.8
35°	4959.6	4990.7	5007.5	5004.9	4954.5	4835.5	4918.3	5048.9	5562.1	6019.9	5083.8
37.5°	5138.1	5163.9	5236.3	5282.9	5236.3	5098.0	5136.7	5227.3	5699.2	6242.2	5200.2
40°	5311.3	5350.1	5456.2	5601.0	5582.8	5461.3	5470.4	5529.8	5941.0	6573.2	5427.6
42.5°	5492.3	5538.9	5723.8	5938.4	5981.0	5886.7	5911.2	5964.3	6284.9	7032.2	5818.1
45°	5725.0	5780.6	6008.2	6275.9	6443.9	6385.7	6455.5	6481.4	6745.2	7629.6	6332.7
47.5°	6025.0	6089.7	6370.2	6703.8	6941.7	6994.7	7116.2	7100.7	7315.4	8336.7	6999.9
50°	6530.5	6566.8	6831.8	7171.8	7498.9	7738.1	7870.0	7894.6	8022.6	9024.6	7745.9
52.5°	7131.8	7164.1	7355.5	7652.8	8062.7	8569.5	8895.3	8815.1	8846.1	9862.4	8618.7
55°	7807.9	7862.3	7983.8	8181.6	8713.0	9459.0	10113.2	10132.6	9788.7	10664.0	9455.1
57.5°	8331.6	8423.4	8631.5	8913.4	9587.0	10448.1	11327.3	11340.2	10900.6	11519.9	10378.3
60°	8067.8	8176.5	8652.2	9338.8	10733.9	12174.1	12777.9	12704.2	11982.8	12494.8	11504.4
62.5°	6930.1	6949.4	7641.2	8714.3	11086.8	14483.3	14937.1	14625.5	13427.0	13730.8	12648.6
65°	4485.1	4611.9	5160.0	6663.7	9927.1	15764.6	18720.2	18000.1	15451.7	15133.6	13606.7
67.5°	2831.5	2799.2	3026.8	3805.1	6827.9	14635.8	21948.7	21834.9	18099.6	16019.3	13377.9
69°	2347.9	2384.2	2461.7	2916.8	4698.5	12496.1	22330.1	23116.1	19383.5	15949.5	12546.5
70°	2129.4	2146.2	2227.7	2585.8	3625.4	10466.2	21704.3	23081.2	19887.7	15657.3	11944.0
72.5°	1689.8	1688.6	1828.2	2151.4	2710.0	5974.5	17821.6	20039.0	19324.0	14297.1	9868.9
75°	1283.9	1304.6	1458.4	1820.4	2496.6	3264.6	12436.6	15432.4	15433.6	11292.4	6158.2
77.5°	925.8	938.6	1118.4	1528.3	2351.9	2646.6	8283.8	11068.7	10405.4	5174.3	1935.5
80°	606.4	614.1	751.2	1210.2	2120.4	2496.6	4911.8	6774.9	4907.9	1373.1	640.0
82.5°	332.3	371.0	459.0	783.5	1701.5	2306.6	2985.4	3428.8	1841.1	611.6	333.5
85°	166.8	177.1	258.6	457.7	1111.9	1908.3	2079.0	1966.5	950.3	303.9	173.2
87.5°	49.1	62.1	107.3	177.1	451.2	994.2	1157.1	1038.2	365.9	109.9	36.2
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°	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4
2.5°	6353.4	6330.1	6226.7	6133.6	6048.3	5957.8	5881.5	5814.3	5820.7	5822.0	5753.5
5°	6208.6	6155.6	5959.1	5775.5	5620.3	5423.8	5255.7	5147.1	5092.8	5020.4	5046.3
7.5°	6012.1	5910.0	5637.1	5332.0	5046.3	4791.6	4514.9	4324.8	4203.3	4085.7	4101.1
10°	5809.1	5644.9	5248.0	4844.6	4474.8	4067.5	3714.5	3412.0	3187.1	3103.0	3047.4
12.5°	5601.0	5385.0	4880.7	4344.2	3833.5	3346.1	2845.7	2521.2	2273.0	2141.1	2157.9
15°	5410.9	5148.4	4498.1	3843.9	3180.6	2600.0	2101.0	1792.0	1618.8	1582.5	1603.2
17.5°	5235.1	4891.1	4139.9	3357.7	2583.2	1949.7	1578.6	1404.1	1334.3	1314.9	1313.6
20°	5054.0	4672.6	3737.8	2838.0	2013.1	1511.4	1295.5	1214.1	1201.1	1208.9	1210.2
22.5°	4870.4	4402.4	3324.1	2322.1	1603.2	1236.0	1132.6	1110.6	1121.0	1139.1	1141.7
25°	4701.0	4164.5	2925.9	1869.5	1280.0	1086.1	1035.6	1035.6	1058.9	1086.1	1087.3
27.5°	4561.4	3934.4	2529.0	1484.3	1071.9	977.4	960.7	969.7	1002.1	1022.7	1024.0
30°	4446.4	3719.7	2154.0	1189.5	942.5	890.8	886.9	902.5	925.8	945.1	946.4
32.5°	4359.7	3530.9	1803.6	999.4	853.4	824.9	823.6	835.2	848.1	853.4	858.5
35°	4326.1	3374.5	1483.0	879.2	793.8	775.7	775.7	774.5	779.6	782.2	784.8
37.5°	4353.3	3254.2	1234.8	801.6	749.9	737.0	729.2	721.4	718.9	718.9	720.1
40°	4468.3	3190.9	1049.8	751.2	718.9	699.5	685.2	676.2	667.2	669.8	672.3
42.5°	4712.7	3202.5	924.4	717.5	691.7	664.6	643.9	633.5	627.0	634.8	633.5
45°	5101.8	3318.9	844.3	694.3	664.6	629.7	610.2	599.9	599.9	611.6	615.4
47.5°	5646.2	3541.3	801.6	676.2	643.9	602.5	583.1	575.3	577.9	597.4	598.6
50°	6310.8	3927.9	793.8	667.2	633.5	583.1	561.1	553.4	559.9	580.5	583.1
52.5°	7043.8	4425.7	831.3	668.4	624.4	571.5	543.0	531.4	537.8	554.6	559.9
55°	7912.7	5048.9	928.3	673.6	611.6	565.0	530.1	504.3	512.0	523.6	525.0
57.5°	8799.6	5834.9	1099.0	674.9	601.2	553.4	508.1	474.5	474.5	482.2	486.1
60°	9883.1	6690.8	1324.0	676.2	602.5	536.6	478.4	440.9	435.7	439.6	440.9
62.5°	10958.8	7407.1	1361.4	672.3	615.4	519.7	446.1	407.3	398.2	397.0	394.3
65°	11433.3	7274.0	1115.8	654.2	629.7	509.4	420.2	374.9	359.4	354.2	354.2
67.5°	10660.1	6153.0	839.1	629.7	620.6	499.0	395.6	347.8	329.7	319.3	319.3
69°	9933.6	5473.0	753.8	612.8	597.4	482.2	380.1	333.5	311.6	300.0	296.1
70°	9372.4	5004.9	717.5	598.6	575.3	462.9	368.4	323.2	298.6	285.8	283.2
72.5°	7479.5	3926.6	628.4	544.3	490.1	389.1	327.1	290.9	267.6	253.4	249.5
75°	4310.6	2128.2	521.1	473.2	394.3	302.5	276.7	253.4	235.3	222.4	218.5
77.5°	1326.5	822.3	377.5	373.7	289.6	234.1	221.1	212.0	199.1	184.9	182.3
80°	558.5	418.9	256.0	252.1	192.7	162.9	159.0	157.8	152.6	141.0	137.1
82.5°	306.5	236.6	178.5	155.2	116.4	94.4	98.2	99.6	95.7	84.0	76.3
85°	150.0	129.3	86.6	69.8	53.0	33.6	32.3	38.8	36.2	25.8	28.4
87.5°	29.8	36.2	23.3	10.3	5.1	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)