

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: P651452

Luminaire Tested: **GALN-SA6D-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651452
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-SA6D-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 38509.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

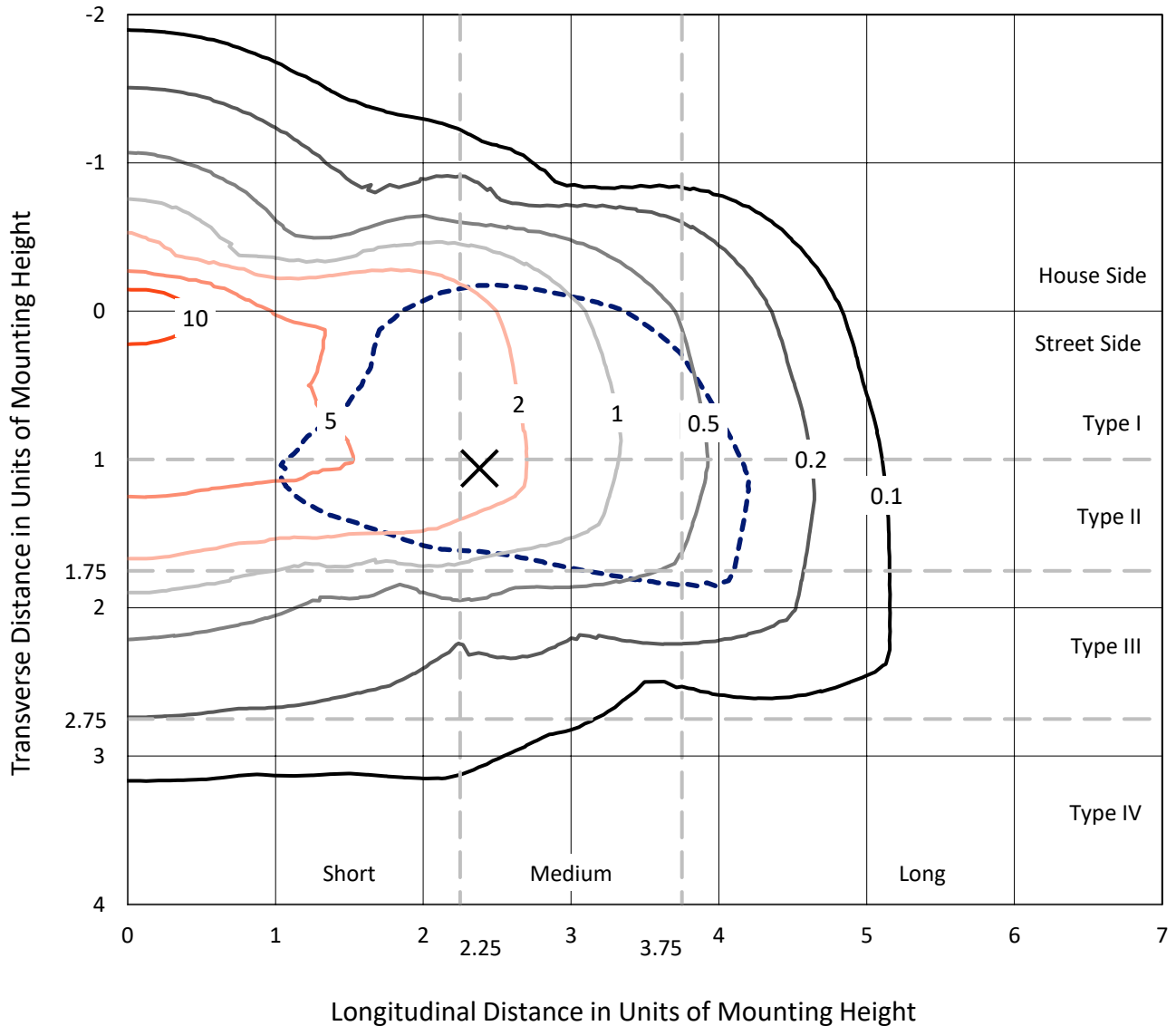
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

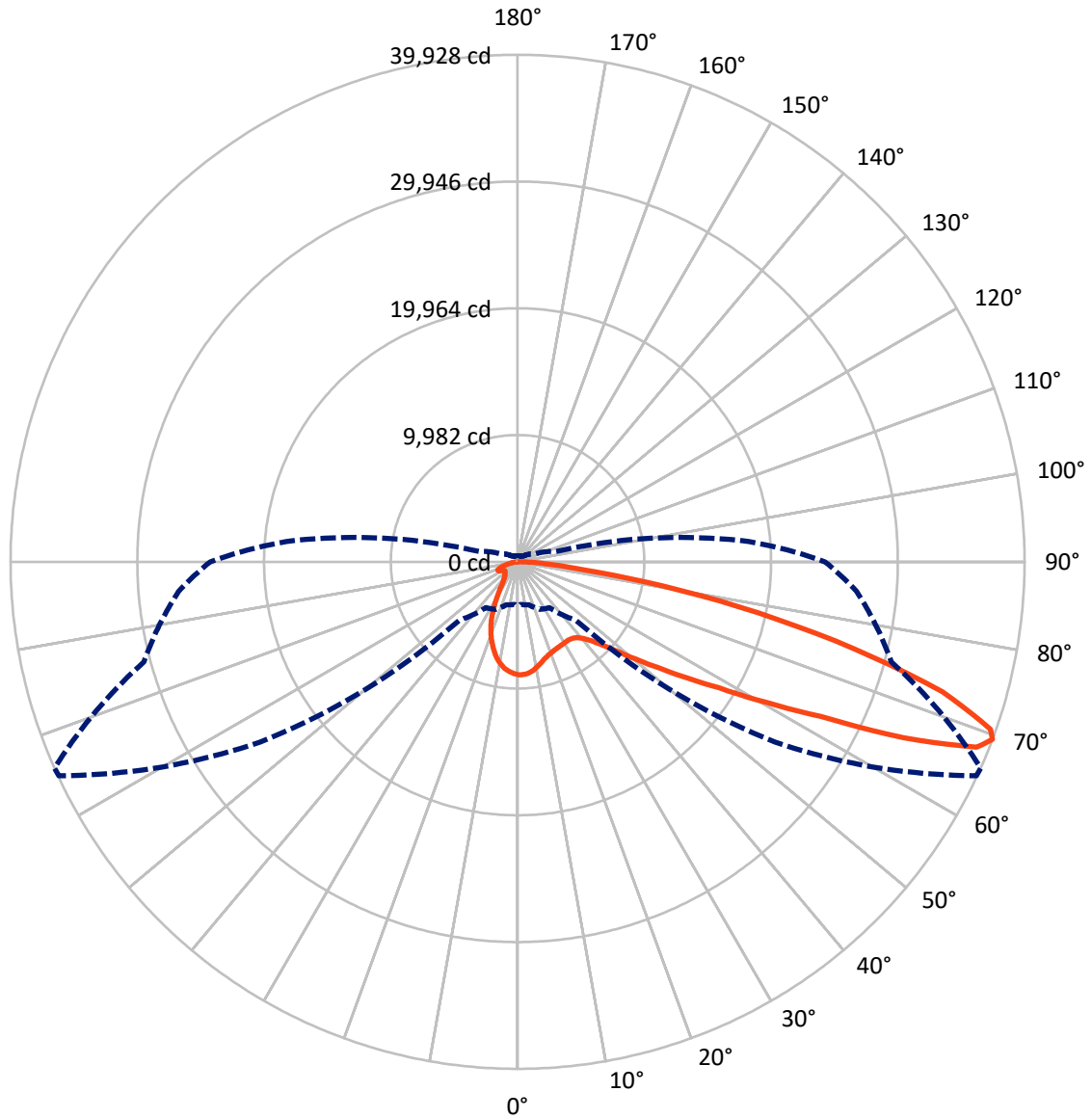
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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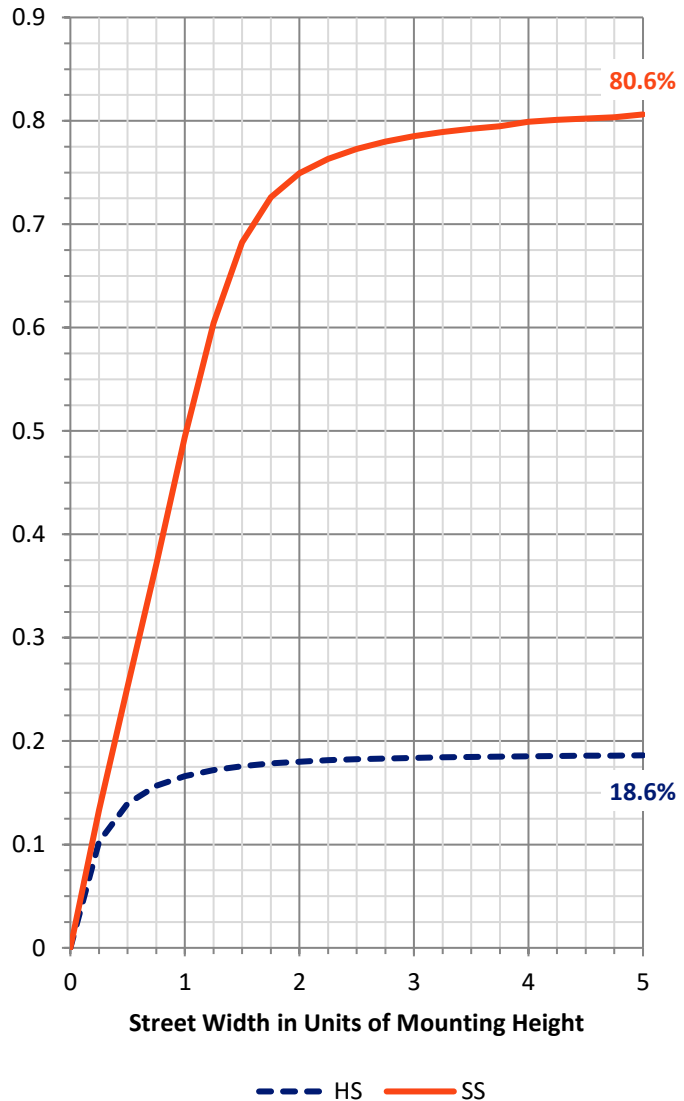
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7242.2	0.0	7242.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31267.2	0.0	31267.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	38509.4	0.0	38509.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.3	2.0
10°-20°	1831.7	4.8
20°-30°	2493.6	6.5
30°-40°	3350.9	8.7
40°-50°	5003.5	13.0
50°-60°	7958.8	20.7
60°-70°	9788.9	25.4
70°-80°	6369.1	16.5
80°-90°	940.5	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°	38509.4	100.0
0°-180°	38509.4	100.0

Coefficient of Utilization

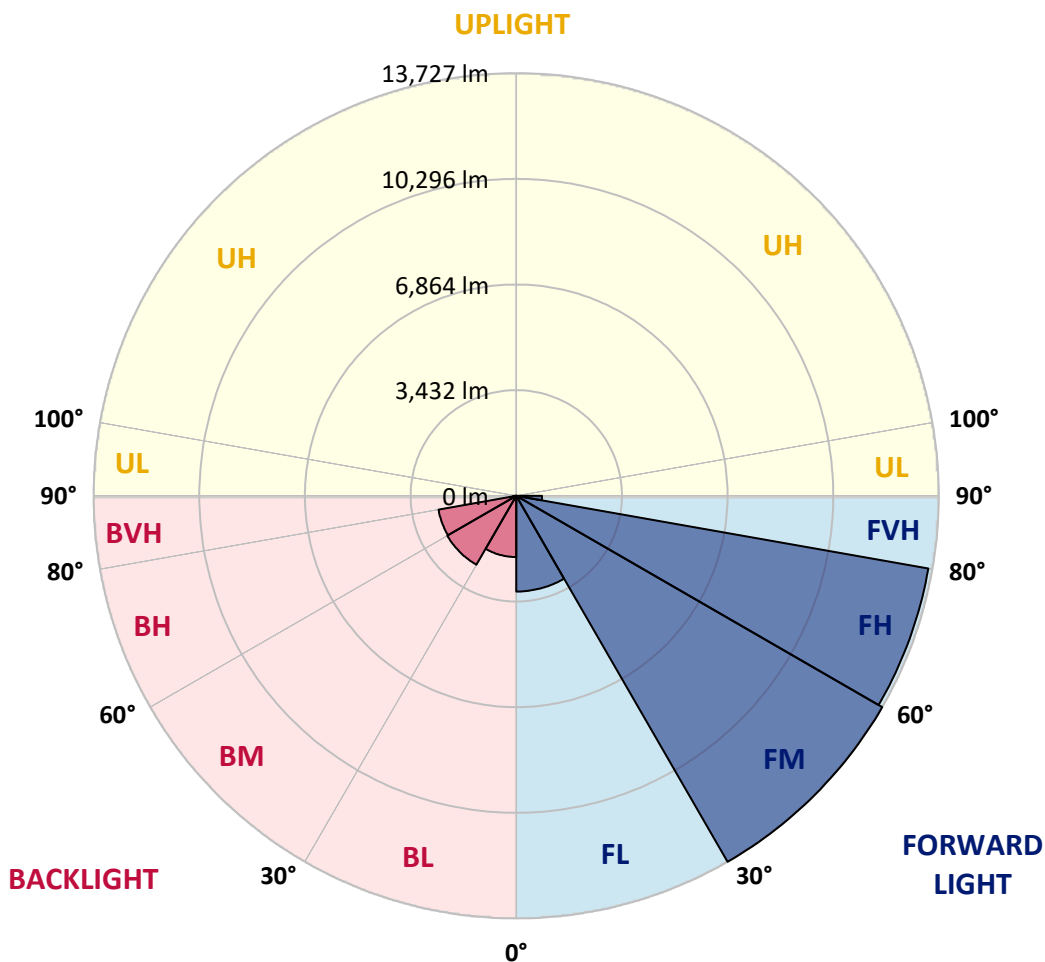


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3109.6	8.1			
FM (30°-60°)	13727.4	35.6			
FH (60°-80°)	13594.0	35.3			G5
FVH (80°-90°)	836.2	2.2			G5
BL (0°-30°)	1988.0	5.2	B3/2500		
BM (30°-60°)	2585.8	6.7	B3/5000		
BH (60°-80°)	2564.0	6.7	B4/5000		G4/5000
BVH (80°-90°)	104.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9
2.5°	8581.6	8615.6	8654.1	8696.7	8777.8	8822.5	8854.5	8890.7	8895.0	8914.2	8899.3
5°	7948.1	7988.7	8046.3	8127.3	8248.9	8438.7	8634.9	8794.8	8814.0	8903.6	8929.1
7.5°	7419.3	7442.8	7489.6	7619.7	7792.5	8003.6	8289.4	8613.5	8660.4	8873.7	8948.3
10°	6988.5	7011.9	7067.4	7201.7	7372.4	7636.8	7950.3	8376.8	8415.2	8782.0	8952.6
12.5°	6666.4	6687.8	6747.5	6879.7	7075.9	7323.3	7668.7	8120.9	8176.4	8660.4	8912.1
15°	6421.2	6461.7	6510.8	6619.5	6826.4	7065.2	7400.0	7886.3	7931.1	8532.4	8884.3
17.5°	6316.8	6335.9	6370.1	6470.2	6621.7	6856.3	7193.2	7702.9	7756.2	8442.9	8877.9
20°	6321.0	6340.2	6346.6	6402.0	6510.8	6713.4	7046.1	7557.9	7621.9	8364.0	8888.6
22.5°	6466.0	6468.1	6444.7	6425.5	6468.1	6636.6	6941.5	7449.2	7523.8	8329.9	8897.2
25°	6689.9	6728.3	6694.2	6604.6	6525.7	6606.7	6901.1	7389.4	7459.8	8280.8	8886.5
27.5°	7052.5	7058.8	7031.2	6909.6	6704.9	6645.2	6884.0	7344.6	7404.3	8244.6	8833.2
30°	7538.7	7519.5	7493.9	7359.6	7037.6	6792.3	6920.3	7304.1	7366.0	8191.3	8769.2
32.5°	8031.3	8091.0	8067.5	7909.8	7491.8	7078.0	7037.6	7299.9	7351.0	8150.7	8698.8
35°	8553.8	8581.6	8692.4	8611.4	8182.8	7540.8	7257.2	7366.0	7406.4	8152.9	8649.8
37.5°	8963.3	9037.9	9298.1	9368.5	8965.4	8152.9	7613.3	7553.6	7570.7	8257.4	8668.9
40°	9458.1	9586.0	9920.8	10208.7	9944.2	8948.3	8219.0	7901.2	7922.6	8509.0	8794.8
42.5°	10085.0	10174.6	10624.5	11014.8	10972.2	9999.7	8952.6	8470.6	8481.3	9010.2	9146.6
45°	10818.6	10946.5	11452.0	12038.5	12138.7	11189.7	10012.5	9332.2	9325.8	9788.6	9803.5
47.5°	11756.9	11835.9	12337.0	12976.8	13382.0	12684.6	11298.4	10569.1	10500.9	10923.1	10801.6
50°	12620.6	12744.3	13124.0	13823.4	14832.1	14435.5	12989.6	12172.8	12012.8	12407.4	12202.7
52.5°	12983.2	13113.3	13433.1	14301.1	16075.5	16700.3	15137.1	14085.7	13819.1	14122.0	14047.4
55°	12354.0	12522.6	12821.1	13876.8	16621.4	19312.7	18033.1	16297.2	16103.1	15973.1	15994.4
57.5°	10663.0	10822.9	11225.9	12390.4	15968.8	21208.6	22168.3	19140.0	18724.1	18124.9	18227.2
60°	8116.7	8216.8	8425.8	9716.1	14034.5	21701.2	26864.2	22733.4	22468.9	20268.1	20340.6
62.5°	5764.4	5877.4	6022.4	6666.4	10274.8	20312.9	30540.7	27751.3	26806.6	22488.2	22417.8
65°	4681.0	4604.2	4779.2	5079.8	6028.8	15742.8	31368.2	34716.4	33415.5	25411.9	24435.2
67.5°	3849.3	3768.3	3941.0	4476.3	4585.0	9138.1	28386.9	39237.4	38977.3	28591.6	26484.6
69°	3407.9	3365.3	3516.6	4126.5	4401.6	6489.5	24729.5	39866.6	39928.4	30466.2	26800.2
70°	3070.9	3088.0	3235.2	3949.6	4318.5	5350.7	21136.1	38998.6	39523.2	31402.4	26459.0
72.5°	2260.5	2296.8	2501.6	3271.4	4239.6	4540.3	12578.0	34063.8	34991.5	31457.8	24204.9
75°	1580.2	1563.2	1744.5	2463.1	4005.0	4499.8	7387.3	26343.8	27395.2	27190.5	20338.5
77.5°	1034.3	1062.0	1207.0	1740.2	3369.5	4465.6	4815.4	18690.0	19372.4	18184.6	12029.9
80°	729.3	727.2	808.3	1187.8	2499.4	4290.8	3943.1	11780.4	11607.7	7146.3	3567.9
82.5°	418.0	447.8	541.7	836.0	1671.9	3776.8	3627.6	5634.3	5143.8	2036.6	1204.9
85°	232.5	243.1	322.0	505.4	976.7	2844.9	3166.9	2563.4	2418.4	850.9	518.2
87.5°	74.7	81.1	134.4	255.9	443.5	1343.5	1793.5	1183.6	1091.9	307.1	209.0
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°	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9	8892.9
2.5°	8905.7	8931.3	8863.0	8796.9	8737.2	8654.1	8579.4	8517.6	8474.9	8468.5	8447.2
5°	8935.5	8937.6	8807.6	8632.7	8462.1	8274.4	8080.4	7941.7	7811.6	7739.1	7702.9
7.5°	8956.9	8937.6	8703.1	8419.4	8091.0	7749.8	7408.6	7135.6	6924.5	6841.4	6873.3
10°	8948.3	8888.6	8545.3	8091.0	7613.3	7103.7	6613.1	6229.3	5877.4	5696.2	5700.4
12.5°	8901.4	8803.3	8310.7	7722.1	7020.5	6338.0	5587.4	5069.1	4661.8	4420.9	4346.2
15°	8860.9	8690.3	8035.6	7220.9	6348.7	5374.2	4459.2	3819.5	3478.2	3288.5	3286.3
17.5°	8818.2	8581.6	7734.9	6689.9	5576.8	4322.7	3363.1	2874.7	2714.7	2734.0	2702.0
20°	8773.5	8453.6	7421.4	6099.2	4636.3	3224.5	2518.6	2320.2	2365.1	2452.4	2465.3
22.5°	8722.3	8317.1	7084.4	5448.8	3646.7	2426.9	2043.0	2013.2	2128.3	2264.8	2284.0
25°	8643.4	8146.5	6660.0	4768.5	2812.9	1955.6	1789.2	1810.6	1923.6	2038.8	2051.5
27.5°	8532.4	7935.3	6231.4	3919.7	2113.4	1678.4	1635.7	1663.4	1718.8	1789.2	1806.3
30°	8383.2	7696.5	5738.8	3186.0	1693.3	1539.7	1522.6	1537.6	1569.6	1599.4	1608.0
32.5°	8233.9	7466.1	5241.9	2439.7	1509.8	1448.0	1431.0	1431.0	1431.0	1435.3	1437.4
35°	8095.3	7248.7	4708.8	1900.2	1413.9	1375.5	1352.1	1326.5	1322.2	1307.3	1307.3
37.5°	8018.5	7050.4	4141.5	1590.9	1343.5	1315.8	1283.8	1241.1	1217.7	1219.9	1215.6
40°	8033.5	6920.3	3625.4	1416.1	1286.0	1256.1	1207.0	1158.0	1143.1	1143.1	1138.8
42.5°	8201.9	6877.6	3130.6	1324.3	1230.5	1196.4	1134.5	1089.8	1081.2	1079.1	1083.4
45°	8590.1	6982.1	2687.1	1264.6	1183.6	1132.4	1070.6	1030.1	1021.5	1021.5	1019.4
47.5°	9347.1	7321.2	2369.3	1226.3	1149.5	1083.4	1019.4	978.8	964.0	959.7	959.7
50°	10524.4	8056.9	2132.6	1192.1	1106.8	1038.6	972.4	925.5	902.1	900.0	897.9
52.5°	12160.0	9204.2	2040.9	1166.6	1059.9	991.6	919.1	874.4	844.5	838.1	833.9
55°	14073.0	10805.8	2166.7	1147.3	1010.9	938.3	863.7	816.8	789.0	776.2	774.1
57.5°	16288.7	12729.4	2644.4	1121.7	966.1	880.8	808.3	761.4	731.5	716.5	712.2
60°	18278.4	14706.3	3478.2	1106.8	927.7	818.9	744.3	701.6	673.9	659.0	656.8
62.5°	20464.3	16591.5	4474.2	1147.3	910.6	759.2	684.6	646.1	622.7	607.8	607.8
65°	22799.5	18478.9	5133.1	1283.8	936.2	712.2	620.6	588.6	567.3	556.6	554.5
67.5°	24373.4	19131.4	4228.9	1424.6	1000.2	661.1	558.8	533.1	520.3	509.7	509.7
69°	24202.7	18306.1	3119.9	1460.8	1019.4	635.5	524.6	505.4	488.4	484.1	479.8
70°	23663.2	17365.6	2614.6	1437.4	1004.5	612.1	503.3	479.8	464.9	460.6	458.5
72.5°	21076.4	15060.3	1947.1	1249.7	855.1	531.0	445.7	424.4	411.6	405.2	405.2
75°	17510.7	12309.3	1520.5	993.8	669.6	447.8	381.7	364.7	354.0	349.8	347.6
77.5°	9814.1	6873.3	1091.9	778.4	507.5	362.6	319.9	304.9	294.3	290.1	290.1
80°	2734.0	1964.1	641.9	513.9	345.5	275.1	253.8	243.1	228.2	217.5	224.0
82.5°	1030.1	850.9	366.8	309.2	219.7	183.4	177.0	168.5	162.1	147.2	147.2
85°	501.2	413.7	234.6	164.2	121.5	96.0	91.7	87.5	83.2	72.5	74.7
87.5°	172.7	183.4	102.3	59.7	36.2	23.5	19.2	10.7	10.7	10.7	10.7
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)