

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: P651504

Luminaire Tested: **GALN-SA7D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26449.5 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

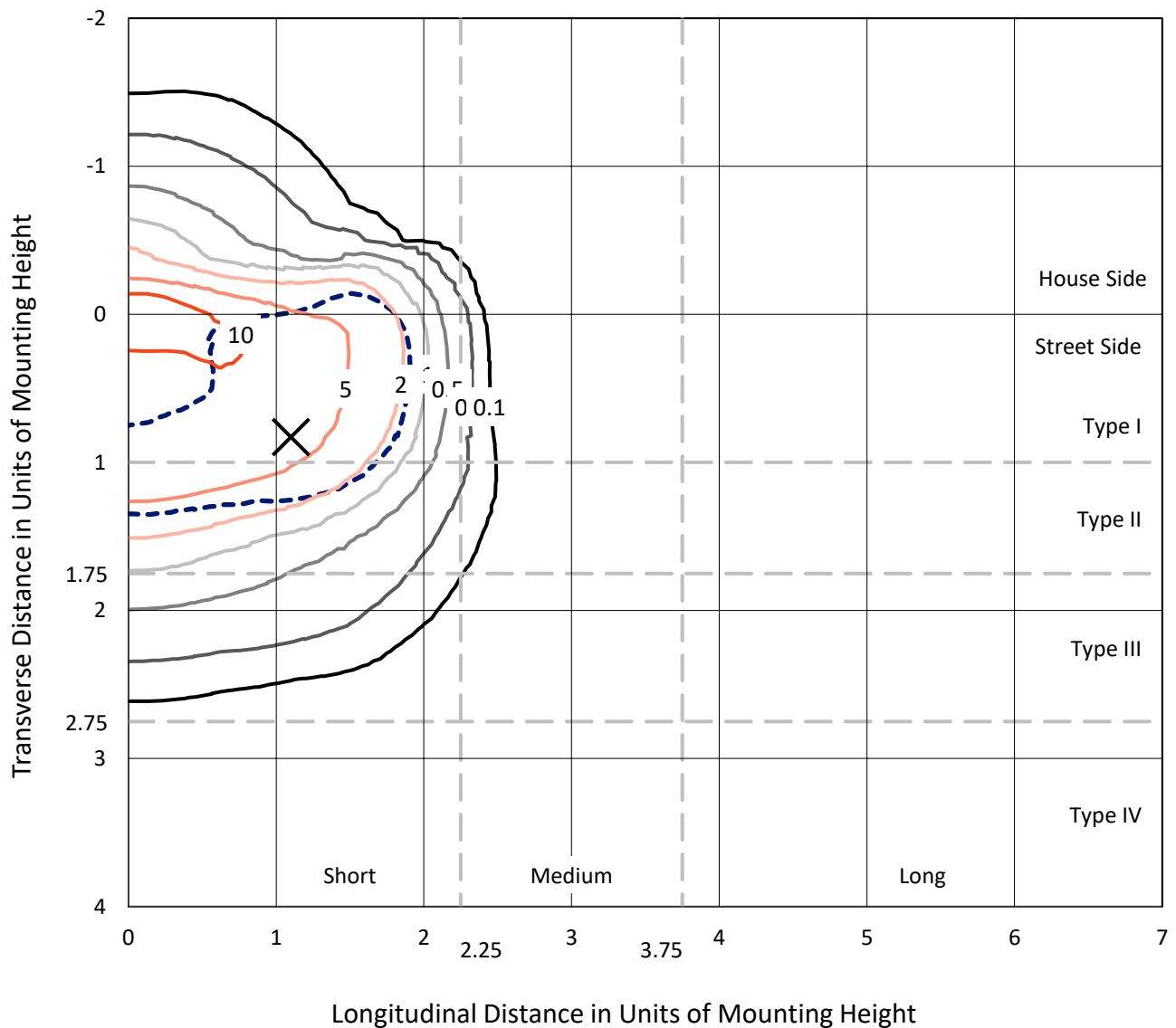
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

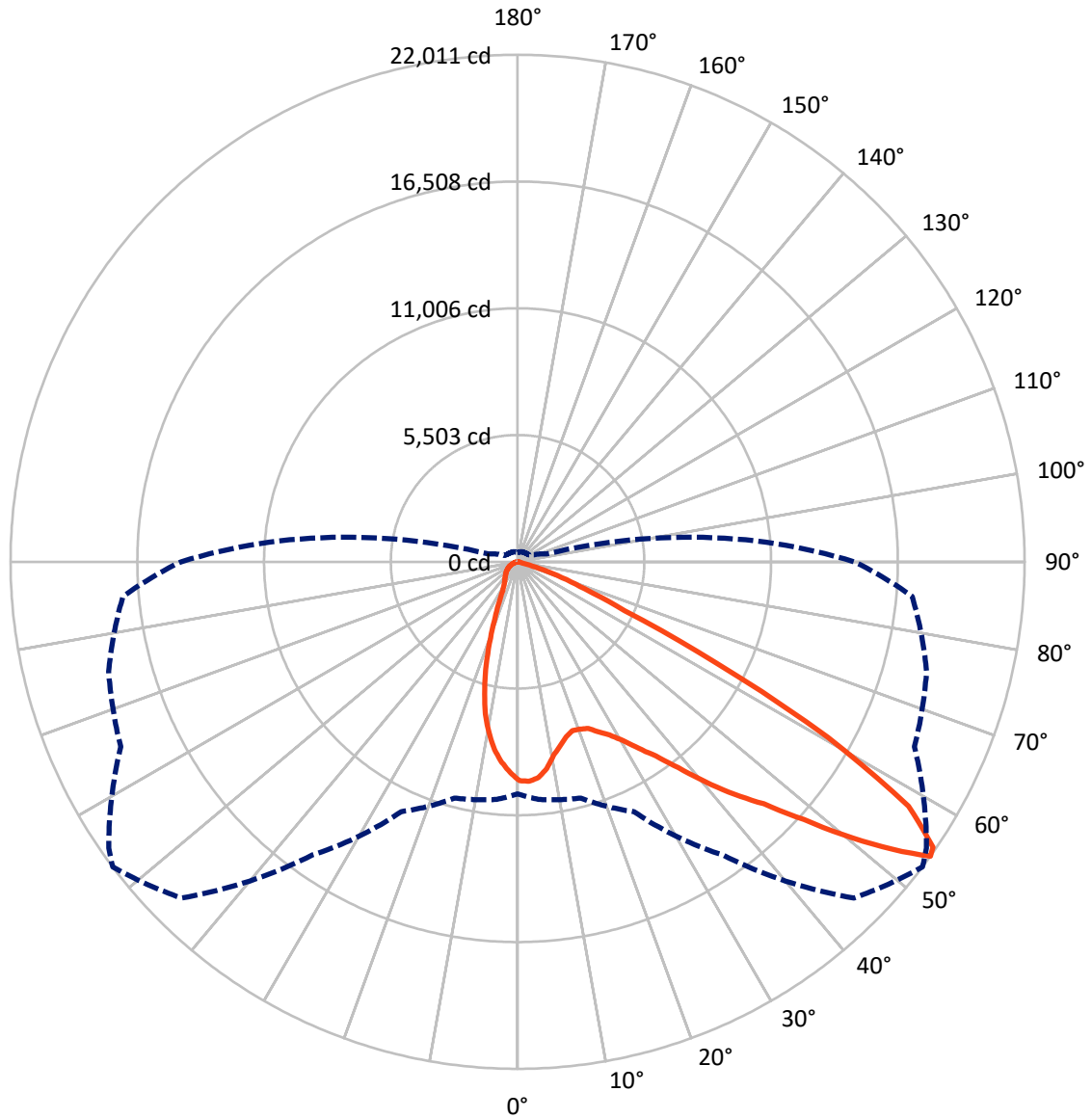
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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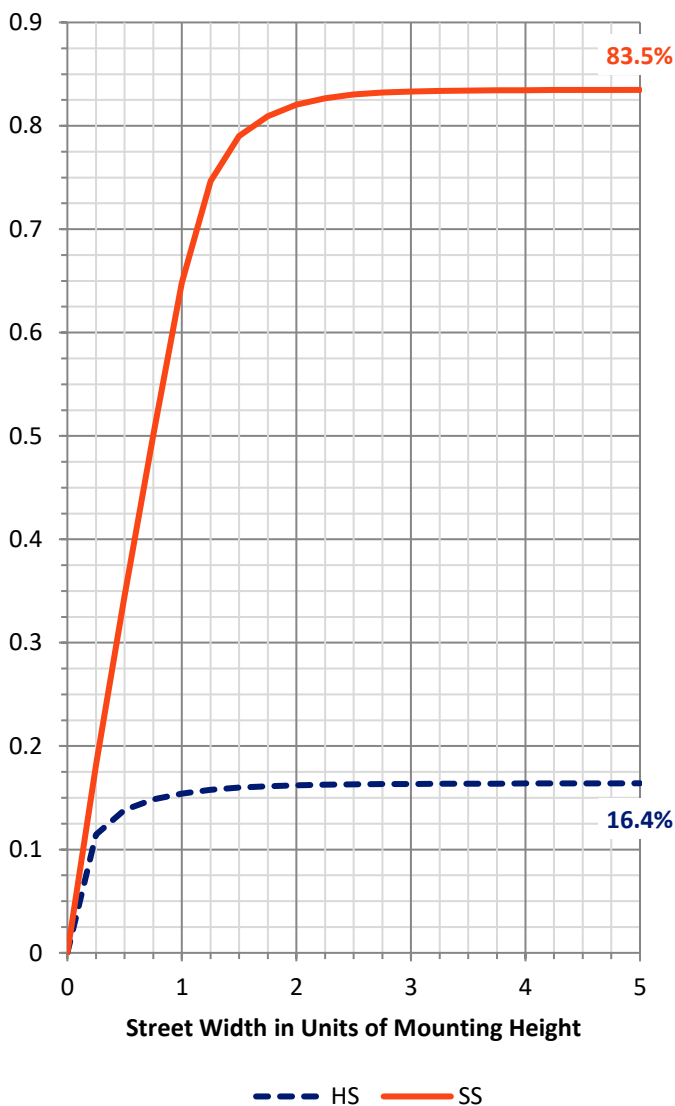
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4376.1	0.0	4376.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22073.3	0.0	22073.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	26449.5	0.0	26449.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.1	3.1
10°-20°	1868.8	7.1
20°-30°	2655.9	10.0
30°-40°	4098.8	15.5
40°-50°	6426.5	24.3
50°-60°	7465.2	28.2
60°-70°	2820.8	10.7
70°-80°	268.2	1.0
80°-90°	30.2	0.1
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°	26449.5	100.0
0°-180°	26449.5	100.0

Coefficient of Utilization

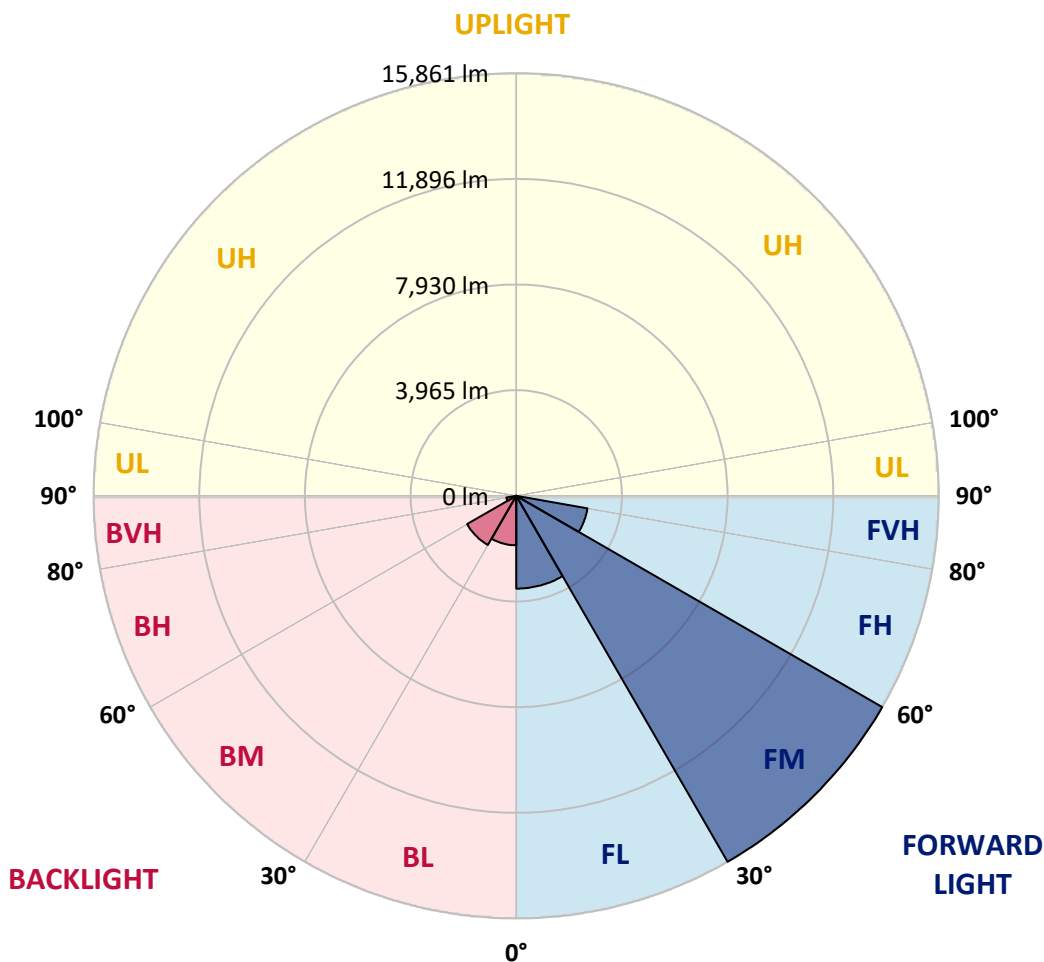


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3482.7	13.2			
FM (30°-60°)	15860.9	60.0			
FH (60°-80°)	2714.1	10.3			G2/5000
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1857.1	7.0	B3/2500		
BM (30°-60°)	2129.5	8.1	B2/2500		
BH (60°-80°)	374.9	1.4	B1/500		G1/500
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2
2.5°	9450.9	9367.1	9450.9	9460.7	9519.9	9574.1	9539.6	9618.4	9574.1	9524.8	9510.0
5°	8687.2	8800.5	8805.4	8982.8	8943.4	9268.6	9411.5	9372.1	9613.6	9598.8	9564.3
7.5°	8002.2	7957.9	8017.0	8224.0	8485.1	8859.6	9066.6	9061.7	9406.6	9652.9	9628.3
10°	7366.6	7361.7	7484.8	7647.5	7869.2	8263.4	8549.2	8692.1	9229.2	9603.7	9657.9
12.5°	6937.9	6918.2	7051.2	7184.2	7534.1	7839.6	8204.3	8273.3	8889.2	9431.2	9519.9
15°	6657.0	6701.4	6711.3	6967.4	7189.2	7593.2	7879.1	8022.0	8731.5	9293.2	9633.2
17.5°	6607.7	6666.9	6671.8	6883.7	7120.2	7460.2	7711.5	7903.7	8598.5	9362.3	9638.2
20°	6706.3	6671.8	6701.4	6834.4	7066.0	7391.2	7755.9	7820.0	8554.1	9396.7	9692.4
22.5°	6987.2	6977.4	6903.4	7011.8	7174.4	7514.4	7859.3	7957.9	8682.2	9574.1	9736.7
25°	7297.6	7351.9	7282.8	7268.0	7381.4	7716.4	8174.7	8302.9	9110.9	9894.4	9874.7
27.5°	7879.1	7824.8	7824.8	7755.9	7726.3	7888.9	8514.7	8726.6	9588.9	10308.3	10032.4
30°	8435.8	8495.0	8450.6	8475.3	8278.2	8263.4	8997.6	9258.7	10436.4	10939.1	10367.4
32.5°	9317.9	9239.1	9313.0	9248.9	8987.8	8721.7	9652.9	9924.0	11461.3	11663.3	10870.0
35°	10052.1	10017.6	10332.9	10323.1	9899.3	9638.2	10347.7	10751.8	12175.8	12530.6	11461.3
37.5°	11096.7	11032.7	11392.4	11564.8	11185.4	10796.1	11343.1	11811.2	12841.1	13225.4	12067.4
40°	12170.9	12333.5	12816.4	13102.2	12698.2	12180.8	12560.2	12703.1	13284.5	13678.7	12481.4
42.5°	13530.8	13767.4	14260.2	14506.5	14472.0	13910.3	13796.9	13792.1	13604.8	13550.6	12786.8
45°	14836.7	14747.9	15506.8	16043.9	16477.5	16314.9	14989.4	14841.6	14112.3	13742.8	12865.7
47.5°	15408.2	15378.7	15896.1	16852.0	18330.3	18532.3	16723.9	16152.3	14969.7	14550.9	13294.4
50°	14669.1	14821.9	15334.4	16393.8	18660.4	20202.7	18852.5	18083.9	15970.0	15536.4	14309.4
52.5°	12254.6	12358.2	12845.9	14191.2	17537.0	21188.2	20892.5	20449.1	17807.9	17088.5	16078.4
54°	10076.7	10352.6	10618.7	11968.9	15536.4	20641.3	22011.1	21671.1	19005.3	18379.6	17192.0
55°	8775.8	8938.5	9130.7	10475.8	14151.8	19714.9	21883.0	21912.5	19808.5	18783.6	17941.0
57.5°	6410.7	6524.0	6326.9	6923.1	9717.0	16009.4	20015.5	20813.7	20892.5	19389.7	18399.2
60°	4897.9	4947.2	4725.5	4819.1	6041.1	10988.3	15482.1	16443.1	18847.7	16945.6	15585.7
62.5°	3799.1	3809.0	3804.0	3966.7	4163.7	6464.9	9682.5	10535.0	12993.8	12032.9	10584.2
65°	2798.8	2754.4	2833.3	3326.1	3552.7	4065.1	5099.9	5720.8	7061.1	5962.3	4262.3
67.5°	1813.3	1828.1	1907.0	2473.6	3045.2	3119.1	3138.8	3089.5	3094.5	1704.9	1069.2
70°	1089.0	1113.7	1089.0	1399.4	2177.9	2237.1	2044.9	1995.6	1557.1	404.0	399.1
72.5°	645.5	611.0	547.0	601.1	906.7	1084.0	975.6	970.7	611.0	236.5	236.5
75°	271.0	246.4	202.0	182.3	241.5	231.6	231.6	207.0	162.6	157.7	147.8
77.5°	54.2	54.2	39.4	44.3	59.1	69.0	83.8	83.8	98.6	98.6	93.6
80°	0.0	5.0	14.8	29.6	44.3	64.1	73.9	73.9	83.8	83.8	69.0
82.5°	0.0	5.0	14.8	29.6	39.4	59.1	73.9	73.9	83.8	88.7	73.9
85°	0.0	5.0	14.8	24.6	39.4	49.3	49.3	44.3	34.5	29.6	19.7
87.5°	0.0	0.0	5.0	9.8	5.0	9.8	9.8	9.8	9.8	9.8	9.8
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°	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2	9500.2
2.5°	9544.5	9539.6	9421.4	9229.2	9184.8	9022.2	9002.5	8904.0	8958.2	8775.8	8756.2
5°	9465.7	9406.6	9263.7	9140.5	8780.8	8524.5	8322.5	8076.1	7933.2	7957.9	7864.3
7.5°	9579.1	9426.3	9175.0	8746.3	8307.7	7859.3	7617.9	7115.3	6933.0	6662.0	6622.5
10°	9460.7	9347.5	8958.2	8248.6	7642.5	6997.0	6430.4	5873.5	5449.8	5267.5	5228.1
12.5°	9450.9	9253.9	8603.4	7815.0	6937.9	6011.6	5188.6	4493.9	4075.1	3838.5	3784.3
15°	9298.2	9061.7	8204.3	7144.9	5932.7	4779.7	3882.9	3212.7	2892.5	2754.4	2793.9
17.5°	9313.0	8958.2	7805.2	6435.3	4942.3	3508.4	2651.0	2306.1	2222.3	2256.8	2256.8
20°	9298.2	8726.6	7322.3	5617.4	3784.3	2434.2	1946.3	1823.2	1877.4	1985.8	1961.1
22.5°	9219.3	8618.1	6878.8	4755.0	2784.0	1803.4	1562.0	1567.0	1650.7	1783.8	1813.3
25°	9278.5	8376.7	6317.0	3882.9	2030.1	1438.9	1355.0	1389.6	1478.2	1576.8	1596.5
27.5°	9234.1	8204.3	5730.7	3015.7	1483.2	1236.8	1231.9	1271.3	1310.7	1384.6	1384.6
30°	9283.4	8046.6	5154.2	2242.0	1222.1	1133.3	1113.7	1143.2	1182.6	1197.4	1192.5
32.5°	9465.7	7928.4	4488.9	1675.4	1079.1	1034.8	1034.8	1034.8	1029.8	1049.6	1054.4
35°	9864.8	7948.0	3902.6	1295.9	985.5	951.0	936.2	916.5	906.7	916.5	921.4
37.5°	10298.5	7938.2	3296.5	1103.7	916.5	886.9	852.4	822.9	818.0	827.8	813.0
40°	10490.6	8031.8	2734.8	990.4	852.4	818.0	763.8	739.2	744.0	753.9	744.0
42.5°	10751.8	8061.4	2370.1	901.7	793.3	739.2	704.6	675.1	670.1	684.9	680.0
45°	10746.9	7893.8	1985.8	852.4	739.2	680.0	635.6	611.0	611.0	620.8	625.8
47.5°	11062.2	7869.2	1704.9	808.1	699.7	640.6	586.3	566.7	561.7	561.7	551.9
50°	11796.4	8214.1	1488.1	758.8	650.4	596.2	551.9	527.2	507.5	497.7	492.7
52.5°	13230.3	9288.3	1320.5	699.7	596.2	551.9	512.4	492.7	468.1	443.5	438.6
54°	14619.9	10397.0	1310.7	650.4	551.9	522.3	487.8	477.9	448.4	413.9	404.0
55°	15245.6	11042.5	1345.2	611.0	522.3	502.6	473.1	463.2	433.6	394.2	389.3
57.5°	15763.0	11293.8	1325.5	507.5	473.1	468.1	443.5	428.7	394.2	340.0	330.2
60°	12688.3	8539.3	951.0	448.4	433.6	423.8	404.0	394.2	349.9	290.7	285.8
62.5°	8017.0	4912.7	606.1	394.2	379.4	364.7	340.0	330.2	290.7	231.6	216.8
65°	3414.7	2035.1	409.0	349.9	325.2	300.6	280.9	266.1	231.6	172.5	167.5
67.5°	886.9	724.4	340.0	305.5	271.0	236.5	221.8	197.1	157.7	118.2	113.4
70°	399.1	364.7	285.8	256.3	216.8	182.3	162.6	138.0	103.4	78.8	73.9
72.5°	236.5	231.6	216.8	192.2	162.6	138.0	118.2	93.6	69.0	44.3	44.3
75°	147.8	142.9	147.8	133.0	113.4	103.4	88.7	64.1	39.4	19.7	19.7
77.5°	88.7	88.7	88.7	83.8	78.8	78.8	64.1	39.4	19.7	5.0	5.0
80°	69.0	69.0	73.9	69.0	69.0	69.0	54.2	29.6	9.8	0.0	0.0
82.5°	69.0	73.9	83.8	78.8	69.0	59.1	49.3	29.6	9.8	0.0	0.0
85°	19.7	14.8	24.6	34.5	49.3	44.3	34.5	24.6	9.8	0.0	0.0
87.5°	9.8	9.8	9.8	9.8	5.0	5.0	5.0	5.0	5.0	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)