

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: P651965

Luminaire Tested: **GALN-SA6A-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17048.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

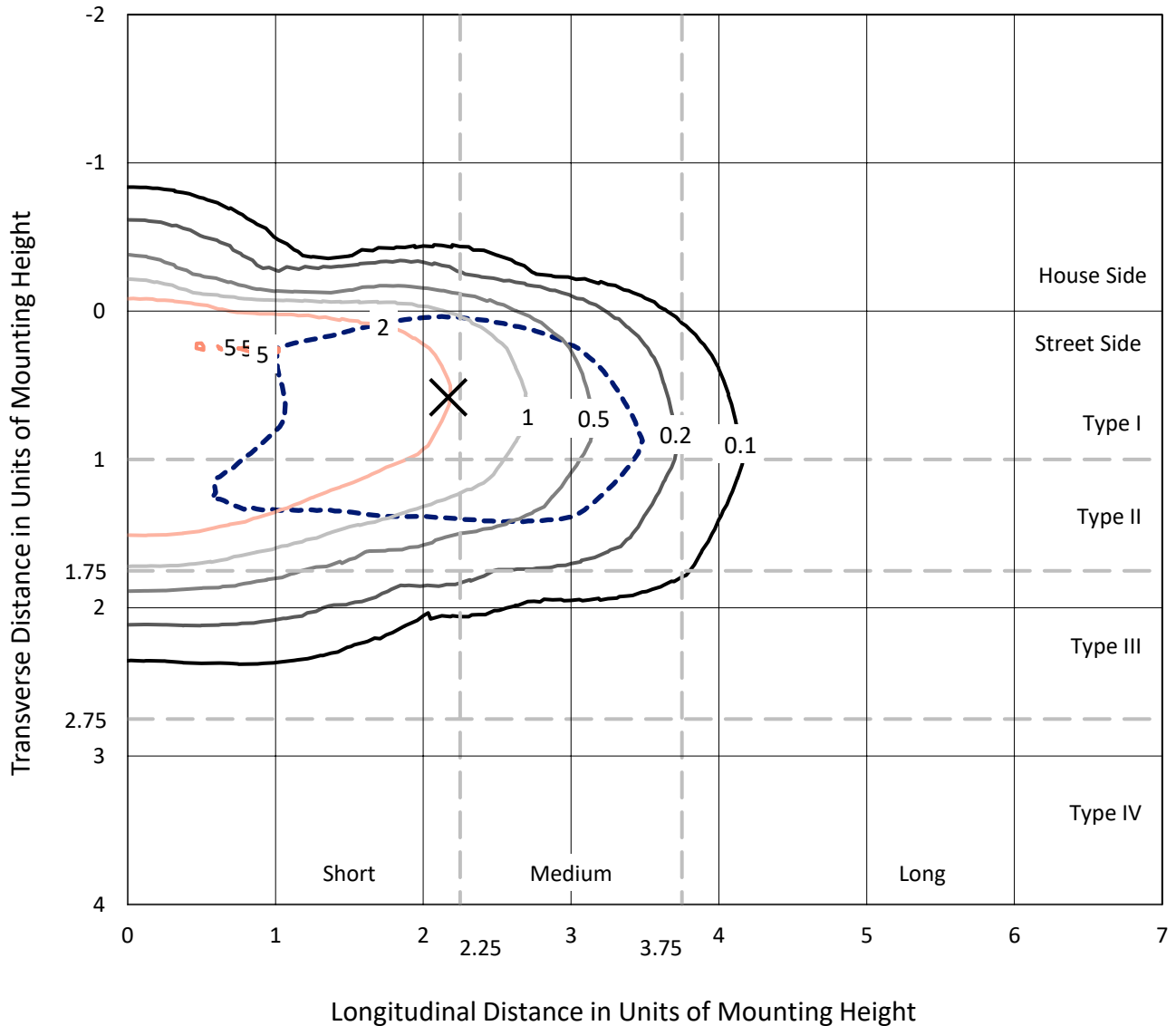
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

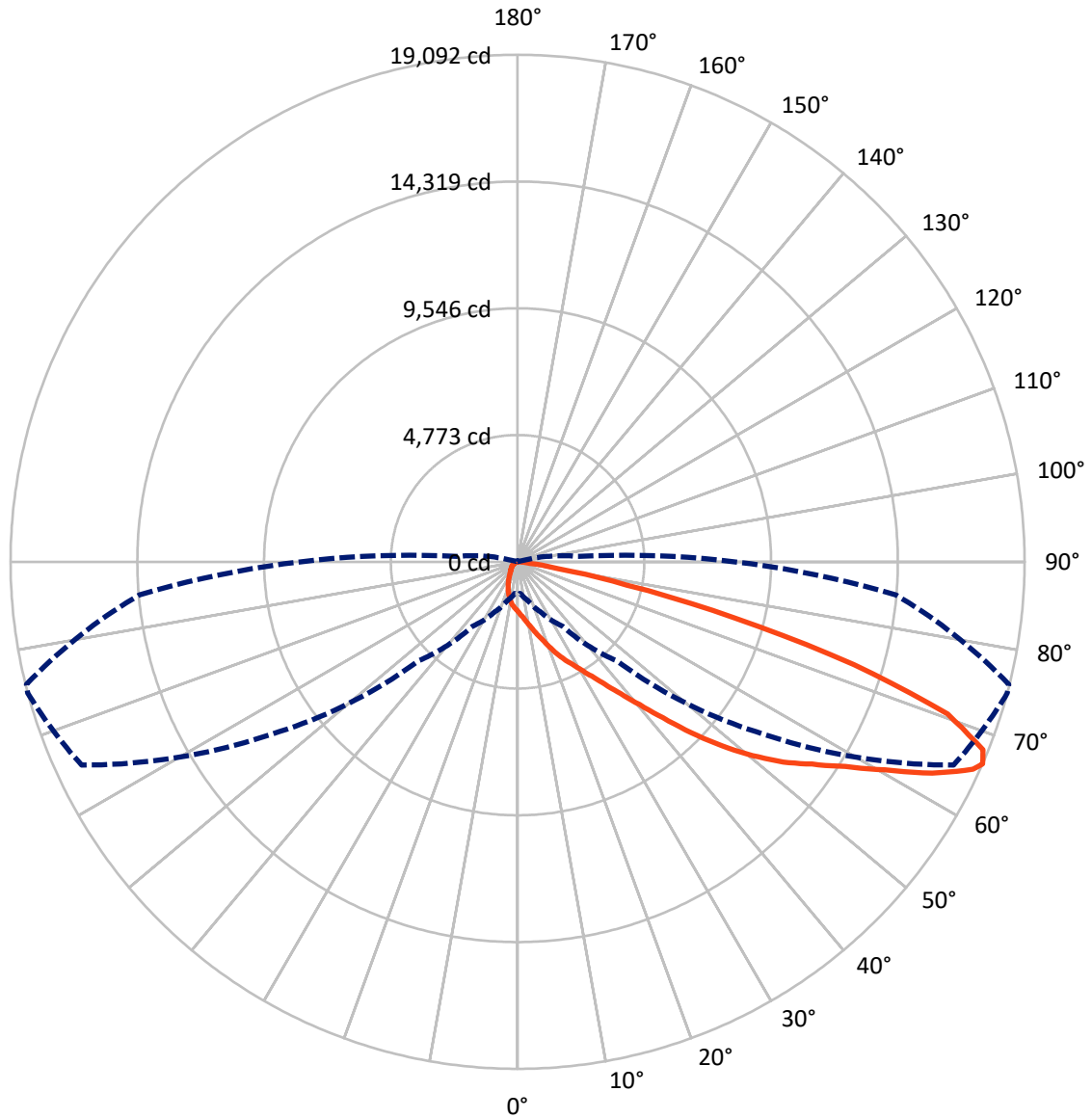
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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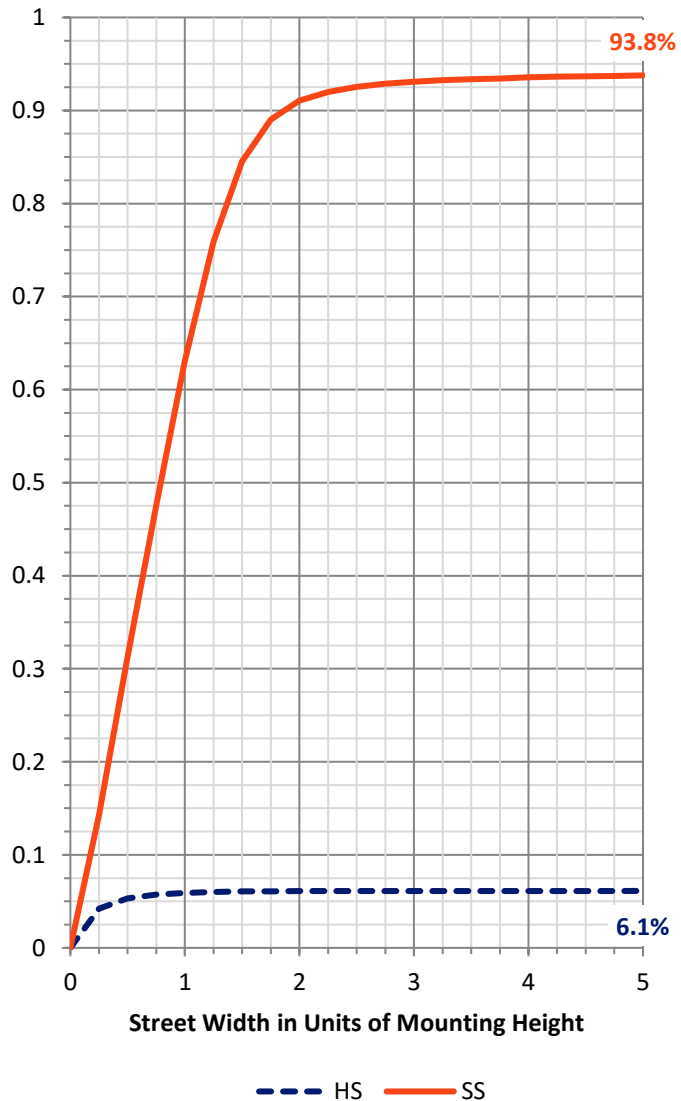
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.5	0.0	1052.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15996.2	0.0	15996.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	17048.8	0.0	17048.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.1
10°-20°	529.2	3.1
20°-30°	913.9	5.4
30°-40°	1648.5	9.7
40°-50°	2978.0	17.5
50°-60°	4642.7	27.2
60°-70°	4410.4	25.9
70°-80°	1652.9	9.7
80°-90°	93.3	0.5
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°	17048.8	100.0
0°-180°	17048.8	100.0

Coefficient of Utilization



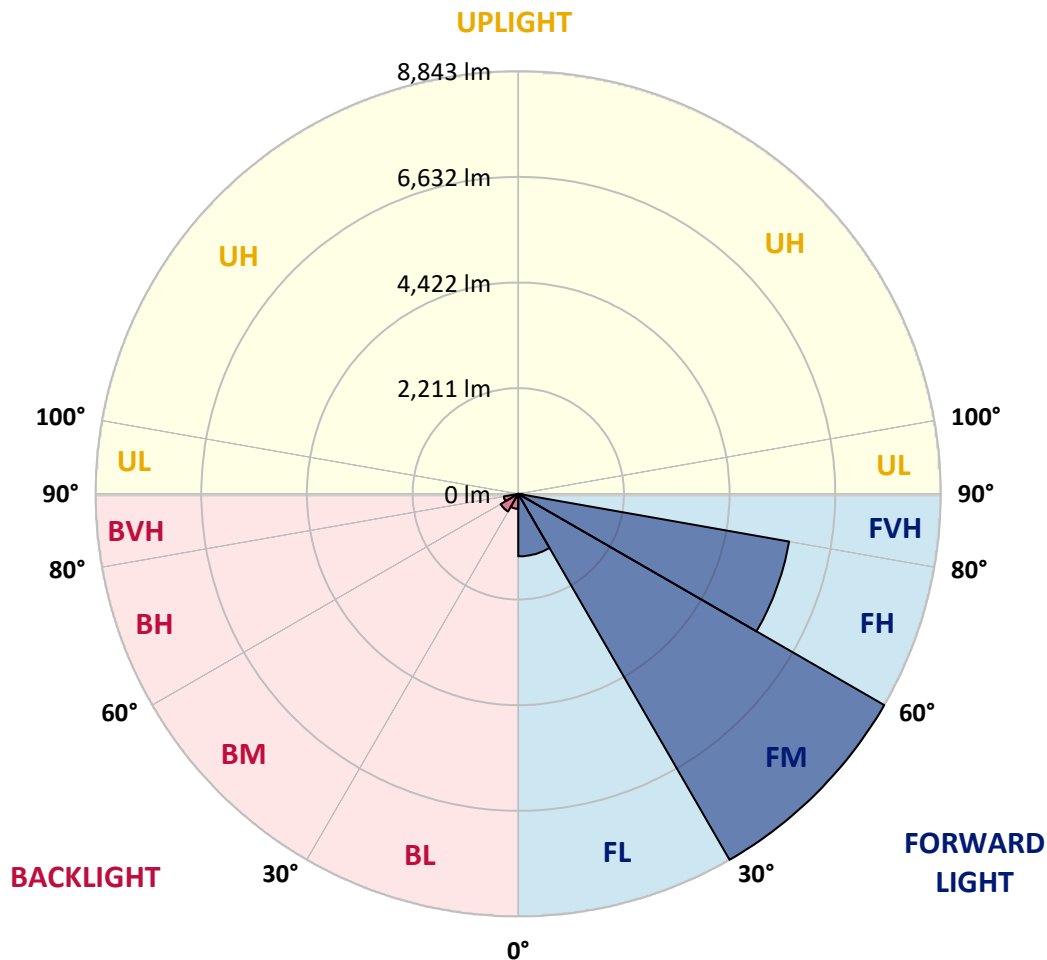
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1308.6	7.7			
FM (30°-60°)	8843.2	51.9			
FH (60°-80°)	5756.0	33.8			G3/7500
FVH (80°-90°)	88.4	0.5			G1/100
BL (0°-30°)	314.3	1.8	B1/500		
BM (30°-60°)	426.0	2.5	B1/1000		
BH (60°-80°)	307.4	1.8	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4
2.5°	2227.5	2199.8	2208.6	2196.0	2167.0	2124.1	2086.4	2032.1	1977.9	1969.1	1908.6
5°	2521.2	2513.7	2503.6	2467.0	2446.9	2381.3	2303.2	2209.9	2097.6	2077.5	1967.9
7.5°	2721.6	2717.9	2722.9	2704.0	2686.4	2627.1	2543.9	2416.6	2242.6	2231.3	2048.5
10°	2787.2	2797.3	2816.2	2846.4	2874.2	2855.3	2792.3	2633.4	2430.5	2397.7	2140.5
12.5°	2749.4	2760.8	2806.2	2886.8	2976.3	3028.0	3002.8	2886.8	2629.6	2603.1	2243.9
15°	2652.3	2666.2	2730.5	2855.3	3015.4	3161.7	3224.6	3141.5	2861.6	2818.7	2368.7
17.5°	2508.6	2528.8	2620.8	2786.0	3005.3	3257.4	3435.1	3407.5	3108.7	3068.3	2504.8
20°	2400.2	2415.4	2493.5	2682.6	2962.4	3310.3	3635.6	3713.8	3413.8	3344.4	2665.0
22.5°	2472.0	2477.1	2503.6	2617.0	2885.6	3324.2	3812.1	4032.7	3737.7	3675.9	2831.3
25°	2823.7	2773.4	2746.9	2721.6	2869.2	3311.6	3972.2	4365.5	4060.4	3994.9	2996.5
27.5°	3378.5	3355.8	3222.1	3043.2	3009.1	3328.0	4078.1	4680.7	4364.3	4293.6	3157.9
30°	3982.3	3943.2	3861.3	3599.1	3335.6	3444.0	4155.0	4987.0	4723.6	4630.2	3305.3
32.5°	4536.9	4562.2	4439.9	4170.1	3865.1	3691.1	4254.5	5321.1	5135.7	5019.8	3476.8
35°	5183.7	5234.0	5046.3	4787.8	4431.1	4137.3	4448.7	5697.9	5658.9	5512.7	3741.5
37.5°	5840.4	5870.7	5756.0	5392.9	5071.5	4704.6	4814.3	6163.2	6303.0	6178.2	4057.9
40°	6392.6	6434.2	6349.7	6027.0	5684.2	5361.4	5345.0	6669.9	7069.5	6940.9	4529.4
42.5°	6814.9	6846.4	6848.9	6620.8	6311.9	6165.7	6022.0	7316.6	8030.1	7881.3	5076.5
45°	7348.2	7393.5	7367.1	7212.0	6981.3	6954.8	6880.5	8098.2	9179.8	8992.0	5786.2
47.5°	8172.6	8202.9	8137.3	7954.5	7720.0	7761.6	7717.5	8974.3	10352.2	10190.8	6521.2
50°	8744.9	8795.3	8888.6	8961.7	8791.6	8637.7	8506.6	9792.4	11465.3	11320.3	7272.5
52.5°	8738.6	8821.8	9116.8	9484.9	9856.8	9810.1	9433.2	10696.3	12528.0	12349.0	7978.4
55°	8149.9	8311.3	8744.9	9397.9	10427.8	10940.9	10769.4	11742.6	13445.7	13324.7	8796.6
57.5°	6934.6	7032.9	7635.5	8548.3	10108.9	11472.8	12317.5	13160.8	14546.3	14489.5	10067.3
60°	4664.3	4708.4	5483.7	6611.9	8606.2	10942.2	13452.0	14876.5	15901.4	15873.6	11551.1
62.5°	2672.5	2691.5	3253.7	4205.4	6124.1	9273.1	13547.8	16993.1	17526.4	17541.5	13268.0
65°	1438.4	1448.5	1902.3	2468.3	3726.4	6609.4	12182.6	18152.8	18839.9	18868.8	14331.9
66°	1241.7	1193.8	1514.0	2103.9	2964.9	5260.5	11319.1	18111.3	19092.0	19060.5	14294.1
67.5°	944.2	987.1	1208.9	1617.3	2197.3	3740.3	9344.9	17305.8	18900.4	18802.1	13713.0
70°	675.7	693.3	861.0	1153.4	1496.4	2052.3	5971.5	14373.5	17178.4	17046.1	11946.8
72.5°	436.1	455.1	610.1	834.5	1081.6	1120.7	3343.1	10384.9	13244.0	13225.1	8997.0
75°	311.3	329.0	403.4	597.5	813.1	693.3	1609.8	6999.0	8419.7	8362.9	5565.7
77.5°	225.6	234.5	269.8	390.8	581.1	496.7	746.3	3737.7	4191.5	4389.4	2459.4
80°	129.9	137.4	187.8	238.3	393.3	339.1	356.8	1500.1	1546.8	1472.4	769.0
82.5°	64.3	73.1	112.2	162.6	245.8	228.2	163.9	451.3	476.5	463.9	194.1
85°	15.1	18.9	63.0	107.1	119.8	102.1	79.4	132.4	163.9	160.1	74.3
87.5°	1.3	2.5	22.7	18.9	20.2	34.1	27.8	34.1	53.0	49.2	26.5
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°	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4	1864.4
2.5°	1880.8	1856.8	1787.5	1719.5	1662.7	1603.5	1549.3	1517.8	1505.1	1491.3	1497.6
5°	1907.3	1849.4	1709.4	1588.4	1469.9	1369.1	1288.3	1236.7	1211.5	1207.7	1201.4
7.5°	1942.6	1843.1	1626.2	1437.1	1282.0	1169.8	1077.8	1003.5	980.8	960.6	944.2
10°	1985.4	1831.7	1522.8	1278.2	1113.1	971.9	850.9	762.7	717.3	704.7	713.5
12.5°	2030.8	1810.3	1414.4	1132.1	941.7	761.4	649.3	605.1	592.5	587.4	588.7
15°	2076.3	1783.8	1300.9	990.9	750.1	607.6	555.9	544.5	539.5	537.1	534.5
17.5°	2117.8	1740.9	1173.6	853.4	607.6	519.4	500.5	490.4	480.3	476.5	470.2
20°	2167.0	1691.8	1058.9	699.6	514.4	470.2	447.5	428.6	413.5	403.4	402.2
22.5°	2213.7	1628.7	939.1	579.9	468.9	422.3	385.8	365.6	347.9	335.3	339.1
25°	2238.8	1551.8	832.0	505.5	427.3	374.4	334.0	308.8	290.0	283.7	282.4
27.5°	2238.8	1457.3	727.4	462.6	389.6	331.5	290.0	266.0	253.4	244.6	245.8
30°	2221.2	1352.7	630.3	429.8	356.8	293.8	254.7	233.2	223.1	216.8	215.5
32.5°	2207.4	1253.1	547.1	398.4	322.7	261.0	226.9	210.5	200.4	194.1	194.1
35°	2228.7	1167.3	482.8	366.8	291.2	235.7	205.5	190.3	180.2	175.3	174.0
37.5°	2285.5	1089.2	433.6	332.8	262.2	214.3	190.3	172.7	162.6	156.3	153.8
40°	2425.4	1045.0	397.1	301.2	234.5	196.6	172.7	156.3	143.7	137.4	136.2
42.5°	2649.8	1046.3	361.8	272.3	213.0	181.5	157.6	138.7	124.8	118.5	117.2
45°	2987.7	1094.2	334.0	244.6	194.1	165.2	141.2	121.0	108.4	102.1	102.1
47.5°	3392.3	1187.5	310.1	220.6	176.5	150.0	124.8	104.6	92.0	87.0	87.0
50°	3831.0	1308.5	286.2	195.4	161.4	133.6	107.1	90.7	80.7	76.9	76.9
52.5°	4278.5	1454.8	262.2	175.3	145.0	116.0	92.0	80.7	71.8	69.3	68.0
55°	4865.9	1641.3	237.0	153.8	127.3	99.6	81.9	70.6	60.5	56.8	55.5
57.5°	5769.8	1922.4	209.2	134.9	104.6	83.2	70.6	59.3	47.9	41.6	40.4
60°	6860.3	2265.3	180.2	118.5	84.4	68.0	56.8	45.4	35.3	27.8	26.5
62.5°	7881.3	2483.4	152.6	99.6	66.8	51.7	40.4	34.1	25.2	17.7	16.4
65°	8332.6	2410.3	126.1	80.7	53.0	36.6	26.5	24.0	15.1	7.6	6.3
66°	8182.7	2301.9	116.0	73.1	47.9	31.5	22.7	20.2	11.4	3.8	3.8
67.5°	7740.1	2046.0	100.8	63.0	41.6	25.2	17.7	15.1	6.3	1.3	0.0
70°	6632.1	1655.2	79.4	46.7	30.3	17.7	10.1	7.6	3.8	0.0	0.0
72.5°	5094.1	1232.9	63.0	35.3	21.4	10.1	5.0	2.5	3.8	0.0	0.0
75°	3121.3	704.7	49.2	26.5	13.9	6.3	3.8	0.0	3.8	1.3	0.0
77.5°	1385.4	316.4	32.8	17.7	10.1	5.0	2.5	0.0	2.5	1.3	0.0
80°	350.4	103.4	18.9	12.6	7.6	3.8	1.3	0.0	2.5	2.5	1.3
82.5°	95.8	37.8	13.9	10.1	6.3	3.8	1.3	0.0	2.5	2.5	2.5
85°	37.8	17.7	12.6	10.1	7.6	3.8	1.3	0.0	2.5	2.5	2.5
87.5°	17.7	12.6	12.6	11.4	8.8	3.8	1.3	0.0	2.5	1.3	2.5
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)