

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: P646851

Luminaire Tested: **GALN-SA3C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10868.1 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

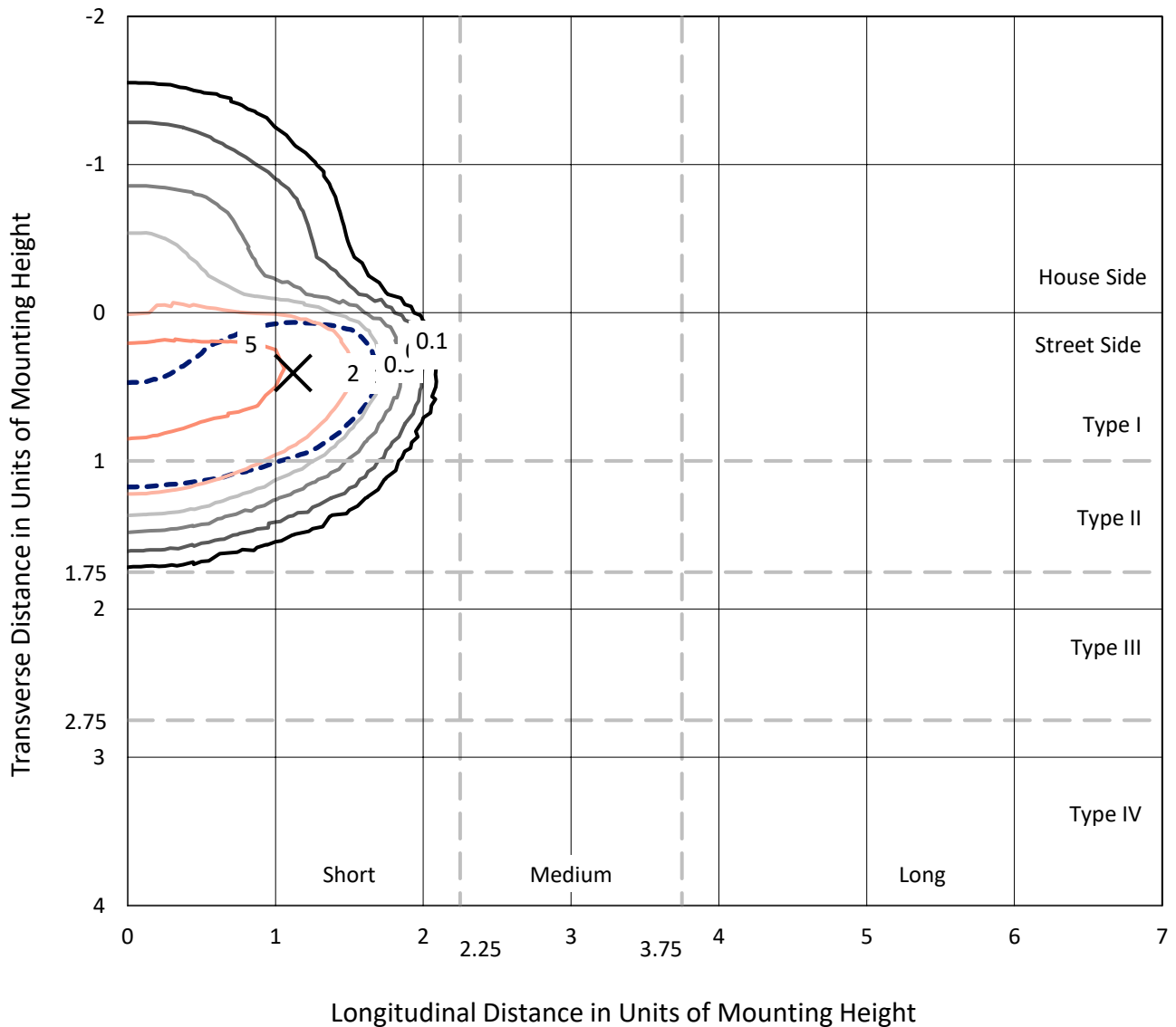
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

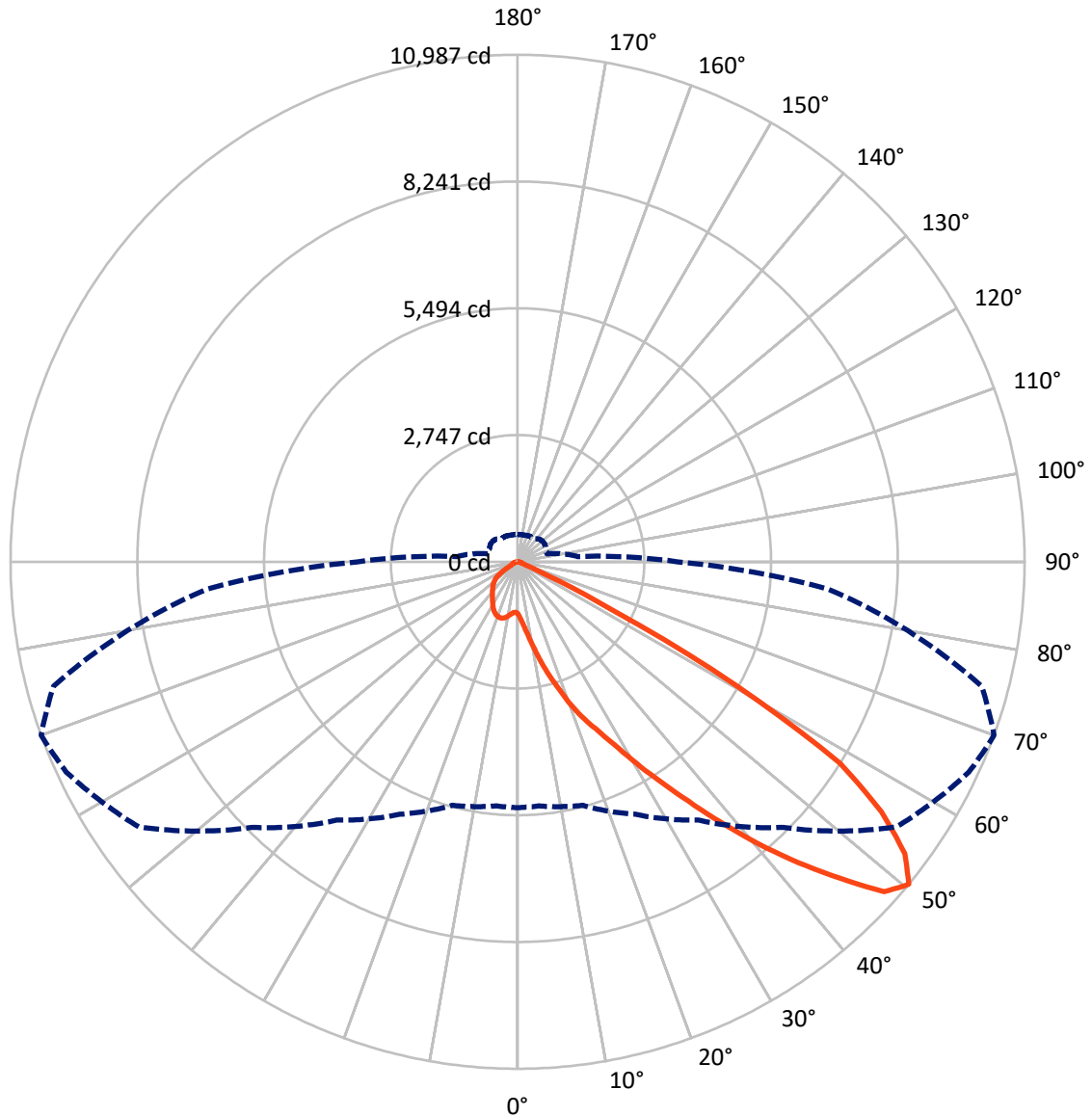
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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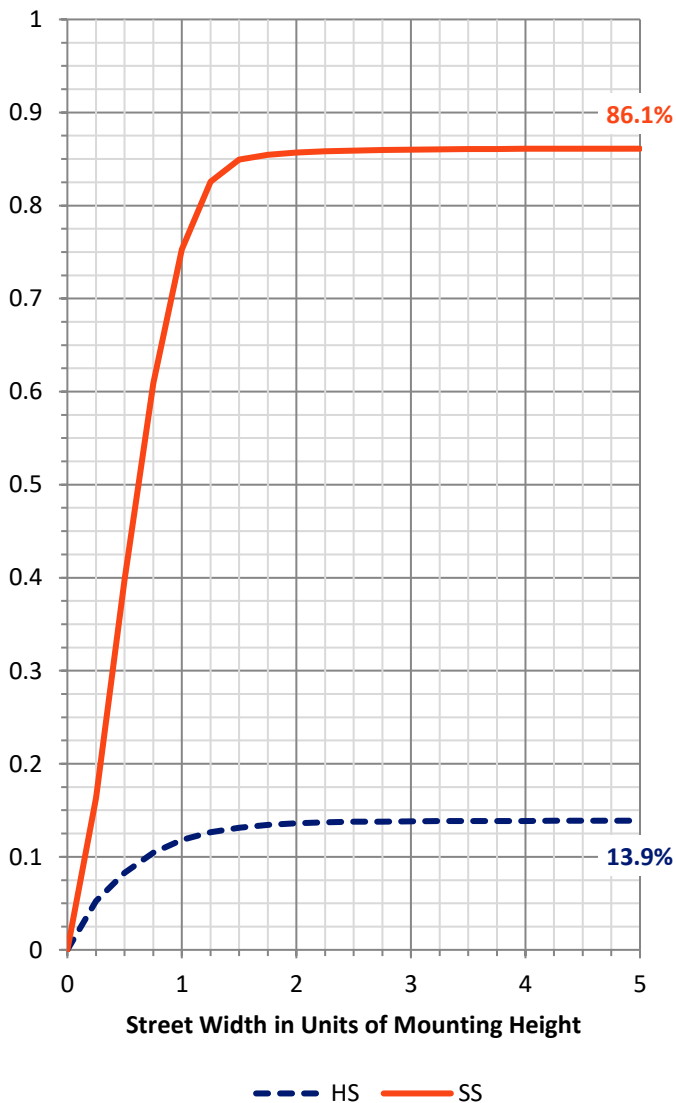
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1517.8	0.0	1517.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9350.2	0.0	9350.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	10868.1	0.0	10868.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.3
10°-20°	633.2	5.8
20°-30°	1328.4	12.2
30°-40°	2289.6	21.1
40°-50°	3346.3	30.8
50°-60°	2606.2	24.0
60°-70°	441.6	4.1
70°-80°	60.7	0.6
80°-90°	15.7	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°	10868.1	100.0
0°-180°	10868.1	100.0

Coefficient of Utilization



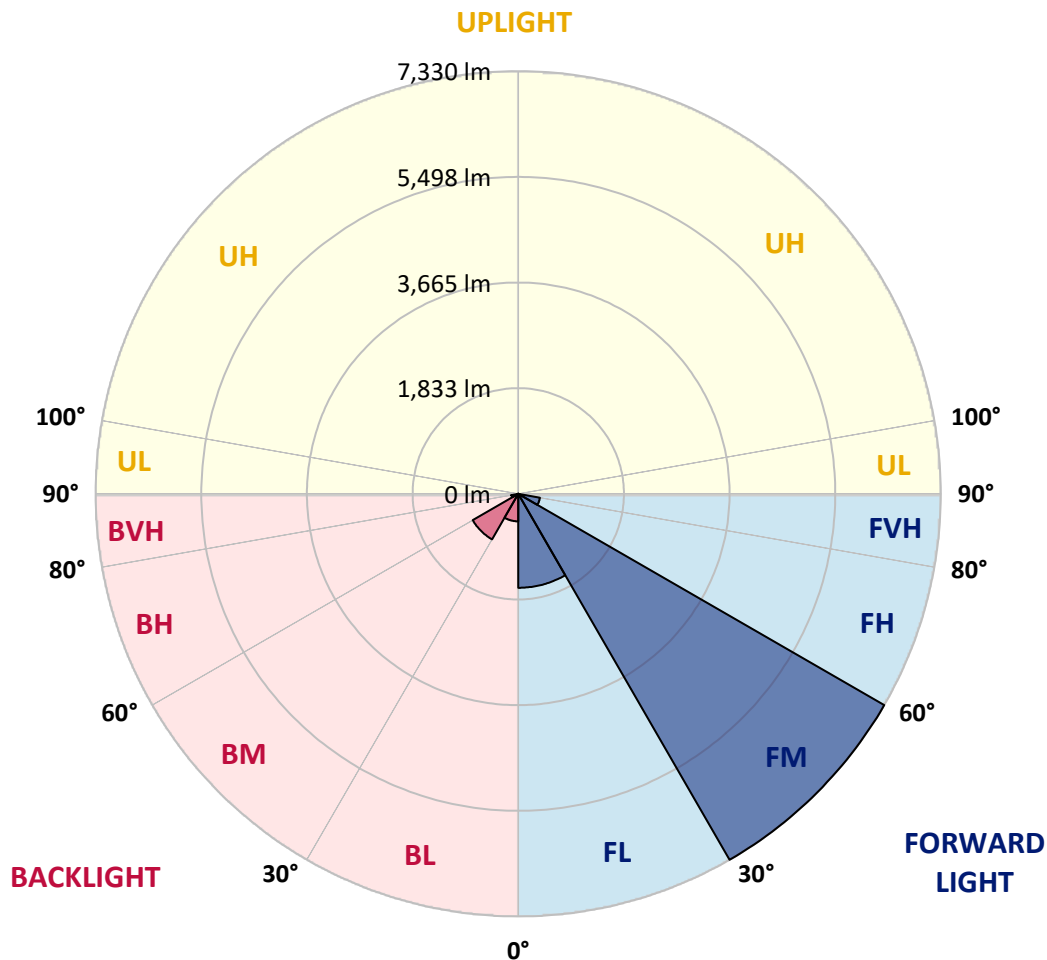
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.3	15.0			
FM (30°-60°)	7330.3	67.4			
FH (60°-80°)	382.3	3.5			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	477.6	4.4	B1/500		
BM (30°-60°)	911.8	8.4	B1/1000		
BH (60°-80°)	119.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7
2.5°	1474.2	1463.4	1440.2	1397.3	1379.4	1336.6	1311.5	1263.3	1232.9	1199.0	1161.4
5°	2076.3	2020.9	1986.9	1938.7	1797.5	1710.0	1565.3	1442.0	1384.8	1322.3	1236.5
7.5°	2698.1	2662.4	2615.9	2512.3	2415.8	2233.6	1985.2	1713.6	1597.5	1490.2	1320.5
10°	3212.7	3112.7	3107.3	3030.5	2925.1	2707.1	2408.7	2071.0	1863.7	1706.5	1440.2
12.5°	3571.9	3480.7	3521.9	3512.9	3414.7	3214.5	2869.7	2423.0	2206.7	1962.0	1563.5
15°	3898.9	3861.4	3848.8	3838.2	3798.8	3650.5	3341.4	2851.8	2539.1	2244.3	1702.9
17.5°	4218.7	4122.3	4168.7	4177.6	4174.1	4040.0	3750.6	3259.2	2891.1	2542.7	1849.4
20°	4502.9	4511.8	4449.2	4436.7	4426.1	4420.7	4138.3	3663.0	3323.5	2855.4	2040.6
22.5°	4867.4	4804.8	4860.2	4824.5	4754.8	4711.9	4495.8	4020.4	3698.8	3232.4	2235.4
25°	5298.0	5348.0	5217.6	5203.3	5126.5	4978.2	4783.4	4420.7	4059.7	3582.6	2446.2
27.5°	5828.7	5741.1	5707.2	5628.6	5489.2	5426.7	5197.9	4833.5	4495.8	3950.7	2649.9
30°	6284.4	6261.1	6091.3	5998.5	5877.0	5875.2	5555.3	5392.7	5063.9	4527.9	2930.5
32.5°	6656.0	6554.2	6491.6	6427.3	6329.0	6355.8	6086.0	6000.2	5669.7	5063.9	3261.0
35°	6904.4	6831.1	6793.6	6695.4	6666.7	6786.4	6673.9	6638.1	6366.6	5818.0	3648.8
37.5°	6983.0	7006.2	6999.1	6875.8	6936.5	7260.0	7404.7	7311.8	7168.8	6613.1	4068.6
40°	7052.7	7068.8	7033.1	7177.8	7351.1	7719.2	8242.7	8089.1	8035.5	7419.0	4653.0
42.5°	7092.0	7079.5	7079.5	7329.7	7592.4	8332.1	9052.2	8950.3	8909.2	8276.7	5328.4
45°	6922.3	6800.7	6931.2	7270.7	7799.6	8634.1	9699.0	9840.2	9781.2	9297.0	6118.2
47.5°	6288.0	6363.0	6436.3	6890.1	7547.7	8541.1	10095.7	10576.4	10685.4	10154.6	6636.4
50°	5328.4	5312.3	5464.2	6036.0	6834.7	8140.9	10018.9	10789.0	10987.4	10411.9	6745.4
52.5°	3875.7	3993.6	4158.0	4726.2	5673.2	7104.6	9027.1	10240.5	10504.9	10095.7	6673.9
55°	2256.8	2126.3	2496.2	2976.9	3870.3	5358.8	7631.7	9077.2	9566.8	9520.3	6312.9
57.5°	904.1	875.6	1002.4	1350.8	2019.1	3321.7	5550.0	7458.3	8242.7	8719.8	5548.2
60°	396.7	387.7	455.6	550.4	825.5	1531.3	3035.8	4638.6	5457.0	6093.1	3818.5
62.5°	285.9	282.3	316.3	350.2	436.0	666.5	1275.8	1869.0	2330.1	2814.3	1710.0
65°	230.5	239.4	262.7	280.5	321.7	369.9	450.3	520.0	637.9	661.2	377.0
67.5°	187.6	194.7	216.2	235.8	243.0	200.1	207.3	182.3	182.3	162.6	130.4
70°	137.6	139.4	164.4	187.6	150.1	80.4	141.2	141.2	126.8	121.5	110.8
72.5°	101.9	103.7	123.3	116.1	59.0	50.0	103.7	114.4	103.7	98.3	89.3
75°	75.0	76.8	64.4	26.8	25.0	32.2	60.8	78.6	75.0	73.3	67.9
77.5°	14.3	10.7	8.9	12.5	17.9	26.8	39.3	48.2	50.0	53.6	50.0
80°	1.8	1.8	5.3	10.7	19.7	28.6	41.1	46.4	48.2	50.0	46.4
82.5°	0.0	1.8	5.3	10.7	19.7	26.8	35.7	41.1	44.7	46.4	44.7
85°	0.0	1.8	3.6	8.9	16.1	19.7	17.9	12.5	10.7	12.5	8.9
87.5°	0.0	0.0	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7	1125.7
2.5°	1140.0	1132.8	1107.9	1081.0	1057.8	1068.6	1057.8	1048.9	1052.4	1048.9	1045.3
5°	1202.5	1170.4	1116.8	1093.5	1073.9	1072.1	1066.8	1065.0	1066.8	1066.8	1050.6
7.5°	1261.5	1209.7	1152.5	1127.5	1104.3	1106.1	1093.5	1093.5	1091.7	1082.8	1079.3
10°	1350.8	1281.1	1207.9	1163.2	1134.6	1129.3	1116.8	1104.3	1104.3	1104.3	1086.4
12.5°	1449.1	1361.6	1261.5	1209.7	1175.8	1149.0	1129.3	1125.7	1106.1	1102.5	1093.5
15°	1534.9	1424.1	1297.3	1225.8	1182.9	1147.2	1116.8	1097.1	1088.2	1082.8	1075.7
17.5°	1618.9	1477.8	1316.9	1225.8	1179.4	1138.2	1106.1	1088.2	1066.8	1070.4	1056.0
20°	1731.4	1534.9	1322.3	1202.5	1145.4	1106.1	1063.2	1054.2	1041.7	1031.0	1034.6
22.5°	1840.4	1576.0	1306.2	1174.0	1091.7	1045.3	1023.9	1013.1	1007.8	998.9	986.3
25°	1938.7	1620.7	1281.1	1122.1	1034.6	1000.7	980.9	979.2	966.7	966.7	943.4
27.5°	2038.8	1636.8	1238.3	1061.4	984.5	964.9	956.0	952.4	947.0	934.5	918.5
30°	2153.2	1642.1	1175.8	998.9	939.9	918.5	931.0	939.9	916.7	893.4	900.6
32.5°	2247.8	1629.6	1100.7	939.9	907.7	897.0	922.0	931.0	904.1	879.2	866.6
35°	2362.2	1599.2	1027.5	893.4	875.6	897.0	918.5	918.5	864.8	834.4	827.3
37.5°	2535.5	1565.3	959.6	854.1	841.6	886.3	914.9	895.2	811.3	773.7	764.8
40°	2721.4	1543.8	893.4	814.8	823.7	868.4	884.5	823.7	738.0	714.7	707.6
42.5°	2991.2	1500.9	834.4	780.9	807.7	843.4	843.4	734.4	702.2	689.7	687.9
45°	3327.1	1470.6	782.6	752.2	784.4	793.3	764.8	687.9	664.7	661.2	662.9
47.5°	3491.5	1411.6	729.1	718.3	741.6	743.3	668.3	650.4	630.8	625.4	621.9
50°	3466.5	1306.2	659.4	673.6	705.8	687.9	609.3	612.9	595.0	593.2	584.3
52.5°	3291.3	1140.0	589.7	623.6	659.4	607.5	561.1	557.5	557.5	534.2	525.3
55°	2917.9	918.5	505.7	548.6	591.5	511.1	498.5	494.9	486.0	464.6	459.2
57.5°	2310.4	673.6	380.6	427.0	502.1	434.2	432.5	416.3	393.1	377.0	377.0
60°	1374.1	387.7	239.4	260.9	332.4	352.0	391.3	384.1	344.8	319.9	312.7
62.5°	627.2	200.1	151.9	155.4	178.7	228.7	307.3	355.6	300.2	257.3	253.8
65°	210.9	148.3	125.0	119.7	123.3	137.6	184.1	252.0	239.4	198.3	191.2
67.5°	128.6	132.2	117.9	109.0	109.0	107.2	105.4	114.4	141.2	137.6	139.4
70°	110.8	121.5	109.0	98.3	94.7	89.3	75.0	62.6	53.6	62.6	66.1
72.5°	89.3	96.5	92.9	84.0	75.0	67.9	53.6	41.1	30.4	26.8	26.8
75°	66.1	71.5	75.0	64.4	57.2	48.2	39.3	26.8	16.1	10.7	10.7
77.5°	48.2	53.6	55.4	50.0	42.9	34.0	25.0	17.9	8.9	3.6	3.6
80°	41.1	48.2	53.6	50.0	44.7	32.2	23.3	12.5	7.1	1.8	1.8
82.5°	39.3	48.2	53.6	48.2	42.9	30.4	23.3	14.3	5.3	1.8	1.8
85°	8.9	12.5	16.1	19.7	23.3	23.3	17.9	10.7	5.3	1.8	1.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	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)