

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: P531114

Luminaire Tested: **GALN-SA6B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22382 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

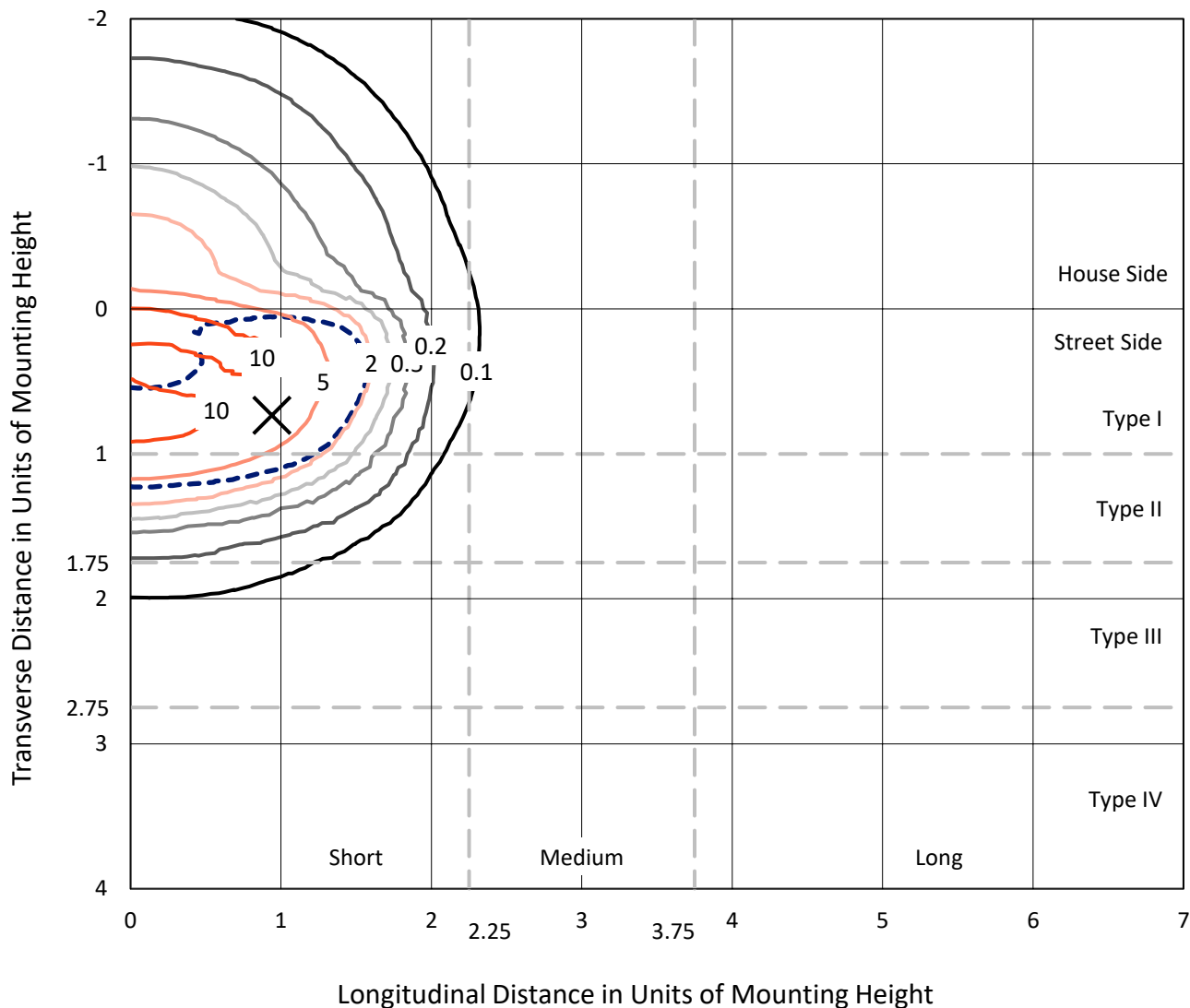
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

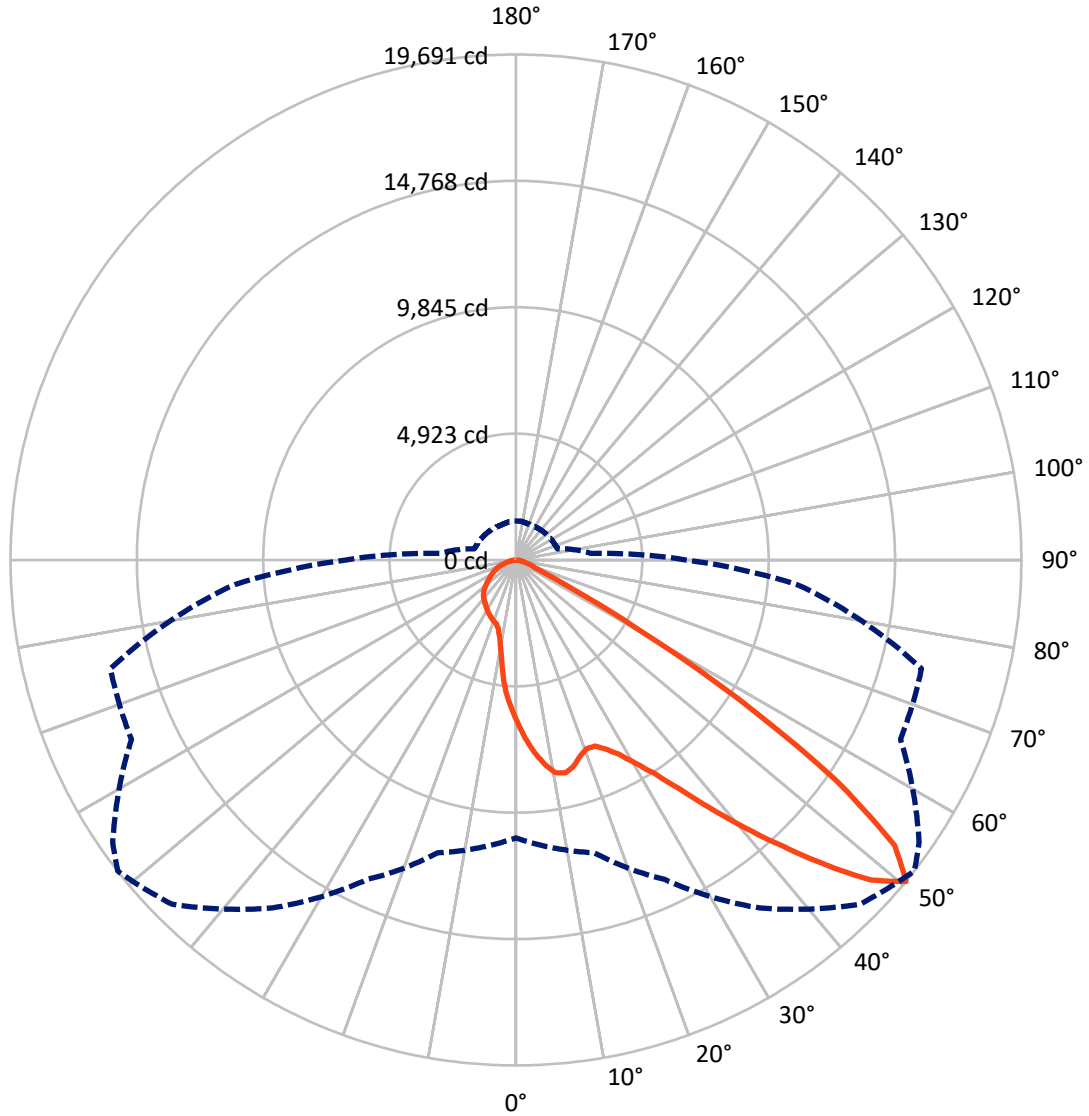
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4207.3	0.0	4207.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18174.7	0.0	18174.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	22382.0	0.0	22382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.5	2.6
10°-20°	1558.6	7.0
20°-30°	2625.4	11.7
30°-40°	4405.6	19.7
40°-50°	6739.5	30.1
50°-60°	4913.6	22.0
60°-70°	1093.5	4.9
70°-80°	394.4	1.8
80°-90°	69.8	0.3
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°	22382.0	100.0
0°-180°	22382.0	100.0

Coefficient of Utilization



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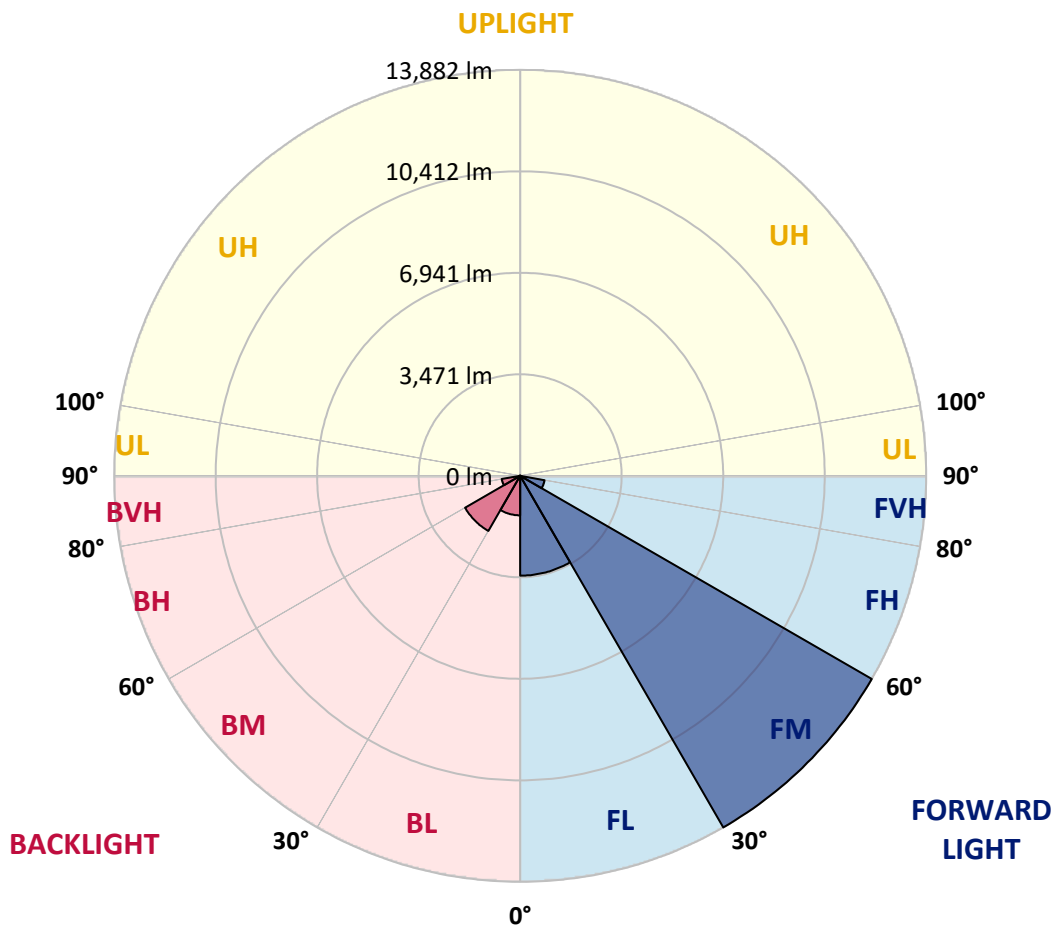
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3414.0	15.3			
FM (30°-60°)	13882.5	62.0			
FH (60°-80°)	847.0	3.8			G1/1800
FVH (80°-90°)	31.3	0.1			G1/100
BL (0°-30°)	1351.5	6.0	B3/2500		
BM (30°-60°)	2176.3	9.7	B2/2500		
BH (60°-80°)	641.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	38.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1
2.5°	7428.5	7285.6	7301.7	7199.2	7088.7	7056.3	6943.0	6835.1	6754.2	6581.5	6422.4
5°	8119.0	8075.9	8011.1	7930.2	7846.6	7641.6	7525.6	7390.8	7094.0	6827.0	6562.7
7.5°	8218.8	8210.8	8245.8	8245.8	8275.5	8197.3	8032.7	7938.3	7622.7	7188.5	6697.5
10°	7517.5	7541.8	7711.7	7932.9	8240.4	8453.5	8426.5	8402.3	8057.0	7463.6	6856.7
12.5°	6959.2	6905.2	7005.0	7193.8	7655.1	8170.3	8518.2	8520.9	8431.9	7903.3	6972.7
15°	6643.6	6681.3	6708.3	6797.3	7145.3	7741.4	8353.7	8534.4	8925.5	8213.4	7156.1
17.5°	6845.9	6719.1	6713.7	6735.3	6913.3	7361.1	8048.9	8359.1	9195.3	8612.7	7382.7
20°	7110.2	7107.5	7032.0	7005.0	7002.3	7401.5	7849.3	8270.1	9338.2	9130.5	7611.9
22.5°	7574.2	7574.2	7450.1	7390.8	7264.0	7590.4	7876.3	8162.2	9575.6	9486.6	7722.5
25°	8351.0	8224.2	8011.1	7865.5	7792.7	7908.6	8162.2	8418.4	9783.3	9864.2	7951.8
27.5°	9068.5	8868.9	8763.7	8512.9	8415.7	8348.3	8580.3	8839.2	10026.1	10452.3	8075.9
30°	9883.1	9848.0	9659.2	9335.5	9095.5	8971.4	9184.5	9440.7	10471.1	11053.8	8361.8
32.5°	11339.7	11021.4	10765.1	10368.6	9977.5	9713.2	9923.6	10093.5	11210.2	11682.2	8674.7
35°	12912.2	12809.7	12367.4	11652.6	11053.8	10816.4	10940.5	11067.3	12070.7	12642.5	9200.7
37.5°	14457.8	14317.6	13953.4	13351.9	12623.6	12140.8	12229.8	12378.2	13036.3	13937.2	9842.7
40°	15569.1	15396.5	15213.1	15124.1	14401.2	13740.3	13689.1	13726.8	14341.8	15151.0	10554.8
42.5°	15650.1	15863.1	15919.8	16278.5	16108.6	15566.4	15250.8	15258.9	15588.0	16351.4	11274.9
45°	15480.1	15283.2	15701.3	16680.4	17241.5	17495.0	16963.7	16896.2	16359.5	17047.3	11633.7
47.5°	13697.2	13751.1	14457.8	16006.1	17627.2	18760.1	18636.0	18412.1	16772.2	17023.0	11577.1
50°	10827.2	11153.6	11809.0	13737.6	16548.3	18959.7	19690.7	19172.8	16526.7	16354.1	10999.8
52.5°	7210.0	7344.9	7776.5	10266.1	13306.1	16947.5	18476.9	18595.6	16300.1	15477.4	10268.8
55°	3209.9	3199.1	3806.0	5362.3	8348.3	12896.1	15097.1	15820.0	15428.9	14584.6	9556.7
57.5°	1359.5	1405.3	1653.5	2317.0	4105.4	7781.9	10228.4	10862.3	11865.7	11976.3	7331.4
60°	919.8	925.2	992.6	1159.9	1718.2	3654.9	5365.0	6125.7	6843.2	6794.6	3889.6
62.5°	722.9	741.8	793.0	860.5	1019.6	1658.9	2400.6	2824.1	2870.0	2414.1	1475.5
65°	617.7	620.4	671.6	728.3	798.4	965.7	1157.2	1178.7	1192.2	1149.1	1084.3
67.5°	509.8	515.2	555.7	620.4	685.1	739.1	793.0	820.0	882.0	1003.4	987.2
70°	404.6	412.7	447.8	501.7	561.0	593.4	660.9	685.1	741.8	836.2	873.9
72.5°	307.5	310.2	339.9	377.6	431.6	463.9	520.6	547.6	585.3	666.2	701.3
75°	221.2	229.3	250.9	269.7	277.8	299.4	353.4	383.0	437.0	472.0	474.7
77.5°	116.0	121.4	126.8	126.8	153.7	194.2	229.3	245.5	283.2	310.2	296.7
80°	45.9	48.6	62.0	83.6	107.9	140.3	164.5	172.6	205.0	221.2	229.3
82.5°	27.0	29.7	40.5	59.3	78.2	99.8	118.7	126.8	148.4	167.2	172.6
85°	13.5	16.2	24.3	37.8	51.2	62.0	59.3	56.6	56.6	53.9	56.6
87.5°	5.4	5.4	8.1	8.1	8.1	10.8	13.5	13.5	13.5	16.2	16.2
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°	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1	6309.1
2.5°	6317.2	6209.3	6109.5	5926.1	5726.5	5669.8	5437.9	5354.3	5294.9	5224.8	5203.2
5°	6349.6	6206.6	5885.6	5516.1	5222.1	4844.5	4596.3	4329.3	4135.0	4086.5	4073.0
7.5°	6417.0	6171.5	5618.6	5060.2	4458.7	3946.2	3555.1	3344.7	3158.6	3147.8	3128.9
10°	6492.5	6066.4	5327.3	4450.6	3681.9	3207.2	2972.5	2880.8	2834.9	2824.1	2818.7
12.5°	6554.6	6044.8	5000.9	3857.2	3131.6	2845.7	2775.6	2767.5	2786.4	2791.8	2802.6
15°	6581.5	5958.5	4607.1	3325.8	2789.1	2683.9	2713.5	2745.9	2759.4	2794.5	2767.5
17.5°	6632.8	5847.9	4121.6	2905.1	2597.6	2616.4	2667.7	2705.4	2727.0	2751.3	2716.2
20°	6659.8	5748.1	3665.7	2654.2	2530.1	2565.2	2635.3	2665.0	2692.0	2702.8	2662.3
22.5°	6635.5	5543.1	3263.8	2451.9	2465.4	2511.2	2573.3	2605.6	2589.5	2546.3	2522.0
25°	6570.8	5254.4	2845.7	2322.4	2373.7	2454.6	2503.1	2478.9	2449.2	2424.9	2416.8
27.5°	6568.1	4901.1	2543.6	2203.7	2295.4	2406.0	2389.9	2368.3	2381.8	2362.9	2341.3
30°	6581.5	4558.5	2295.4	2136.3	2238.8	2292.8	2311.6	2290.1	2306.2	2271.2	2282.0
32.5°	6511.4	4224.1	2133.6	2058.1	2171.4	2168.7	2230.7	2246.9	2209.1	2136.3	2147.1
35°	6541.1	3954.3	1996.0	2023.0	2095.8	2095.8	2144.4	2125.5	2025.7	1982.6	1993.3
37.5°	6746.1	3690.0	1928.6	1974.5	2023.0	2044.6	2028.4	1947.5	1923.2	1923.2	1928.6
40°	6940.3	3463.4	1888.1	1963.7	1955.6	1969.1	1850.4	1858.5	1858.5	1861.2	1847.7
42.5°	7112.9	3309.7	1855.8	1898.9	1912.4	1842.3	1769.5	1761.4	1780.3	1777.6	1766.8
45°	7175.0	3182.9	1809.9	1826.1	1836.9	1720.9	1685.8	1669.7	1691.2	1699.3	1710.1
47.5°	6937.6	3077.7	1758.7	1726.3	1704.7	1629.2	1583.3	1553.7	1580.7	1626.5	1637.3
50°	6632.8	2940.1	1677.8	1615.7	1569.9	1537.5	1505.1	1475.5	1494.3	1526.7	1518.6
52.5°	6182.3	2724.3	1575.3	1510.5	1432.3	1440.4	1410.7	1394.5	1405.3	1405.3	1397.2
55°	5540.4	2238.8	1402.6	1356.8	1292.0	1313.6	1319.0	1297.4	1275.8	1294.7	1278.5
57.5°	3781.7	1580.7	1251.6	1251.6	1186.8	1216.5	1213.8	1162.6	1111.3	1116.7	1105.9
60°	2187.6	1259.7	1154.5	1143.7	1076.2	1100.5	1105.9	1070.9	992.6	998.0	987.2
62.5°	1243.5	1076.2	1008.8	992.6	979.1	1000.7	1000.7	954.9	887.4	892.8	882.0
65°	1057.4	998.0	900.9	898.2	892.8	898.2	876.6	828.1	768.7	744.5	747.2
67.5°	960.3	922.5	828.1	803.8	787.6	784.9	744.5	698.6	671.6	650.1	647.4
70°	841.6	811.9	741.8	709.4	693.2	655.5	615.0	585.3	547.6	536.8	547.6
72.5°	666.2	663.5	636.6	601.5	566.4	536.8	501.7	461.2	426.2	418.1	399.2
75°	461.2	466.6	472.0	466.6	437.0	399.2	358.7	326.4	283.2	258.9	253.6
77.5°	302.1	310.2	318.3	307.5	288.6	253.6	226.6	186.1	153.7	134.9	132.2
80°	221.2	232.0	237.4	229.3	207.7	180.7	151.1	118.7	94.4	78.2	78.2
82.5°	169.9	180.7	186.1	172.6	151.1	129.5	107.9	83.6	64.7	51.2	48.6
85°	59.3	56.6	67.4	70.1	83.6	78.2	64.7	48.6	37.8	27.0	24.3
87.5°	16.2	16.2	18.9	18.9	16.2	13.5	13.5	13.5	10.8	8.1	8.1
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)