

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: P648035

Luminaire Tested: **GALN-SA7A-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25184.4 lumens
Efficiency: N/A
Efficacy: 117.1 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

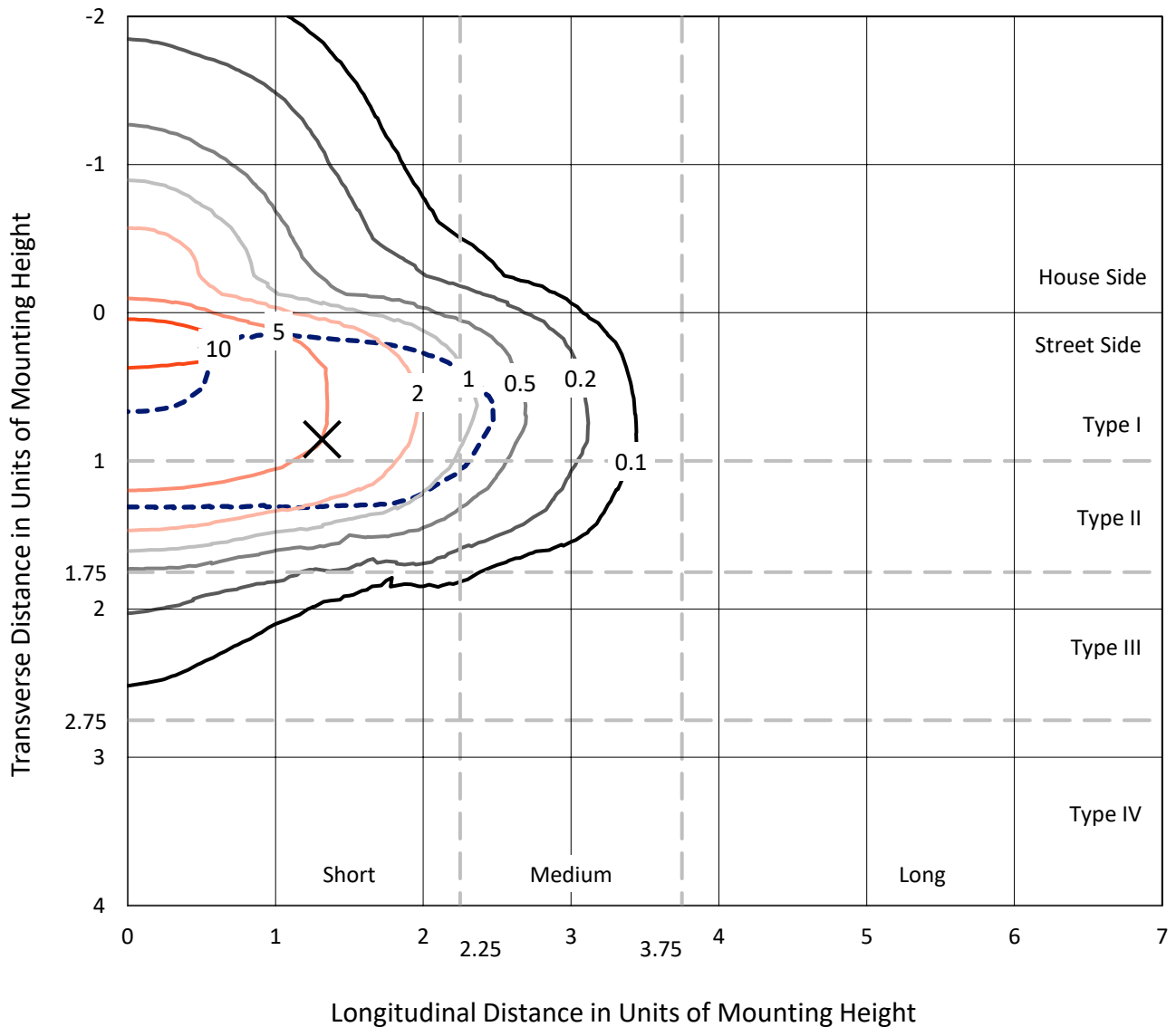
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

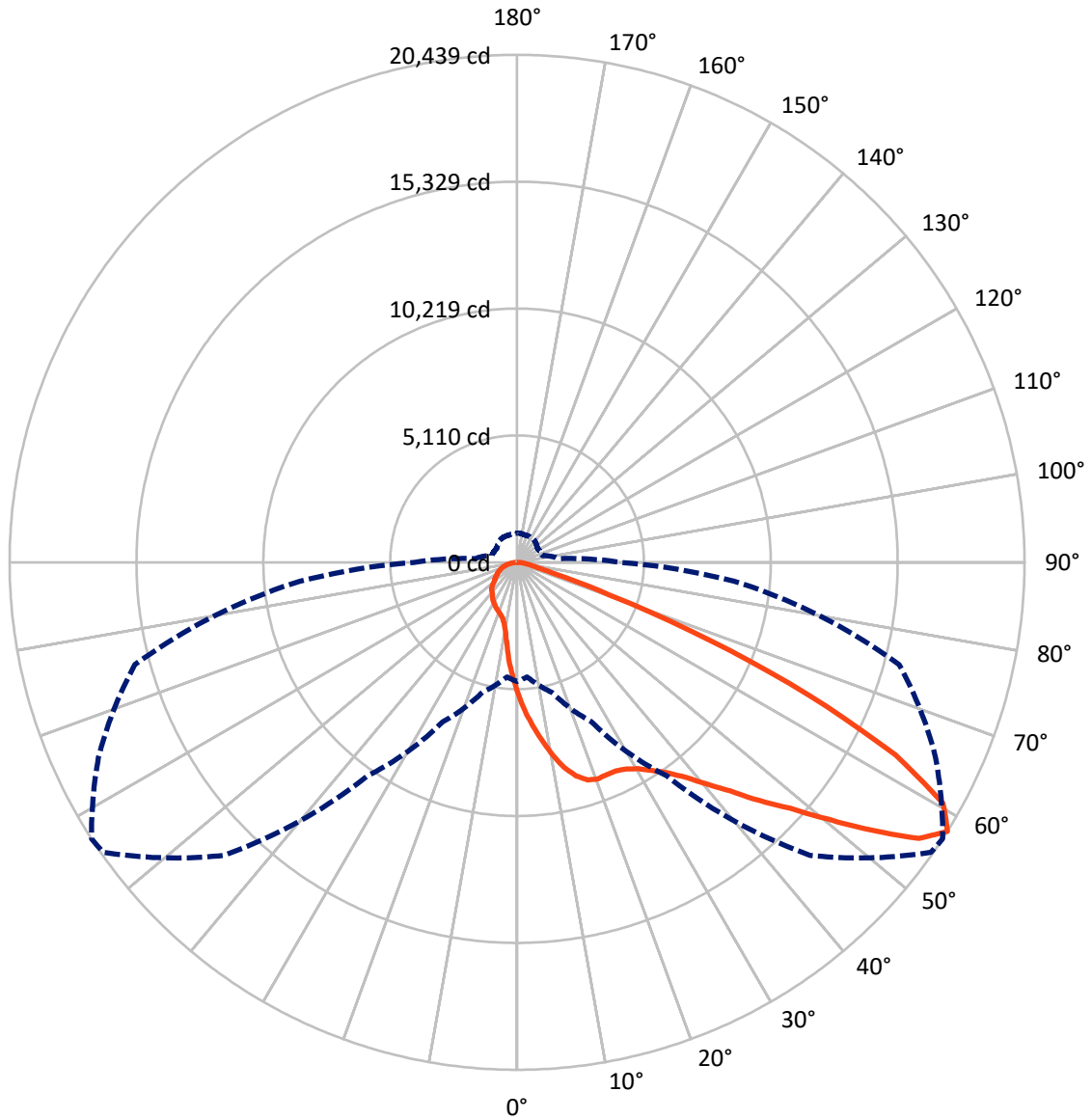
✕ Max cd
 - - - 1/2 Max cd



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 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3829.8	0.0	3829.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	21354.6	0.0	21354.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	25184.4	0.0	25184.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.5	2.0
10°-20°	1498.6	6.0
20°-30°	2488.5	9.9
30°-40°	3748.4	14.9
40°-50°	5627.8	22.3
50°-60°	6308.1	25.0
60°-70°	3691.8	14.7
70°-80°	1092.0	4.3
80°-90°	220.7	0.9
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°	25184.4	100.0
0°-180°	25184.4	100.0

Coefficient of Utilization

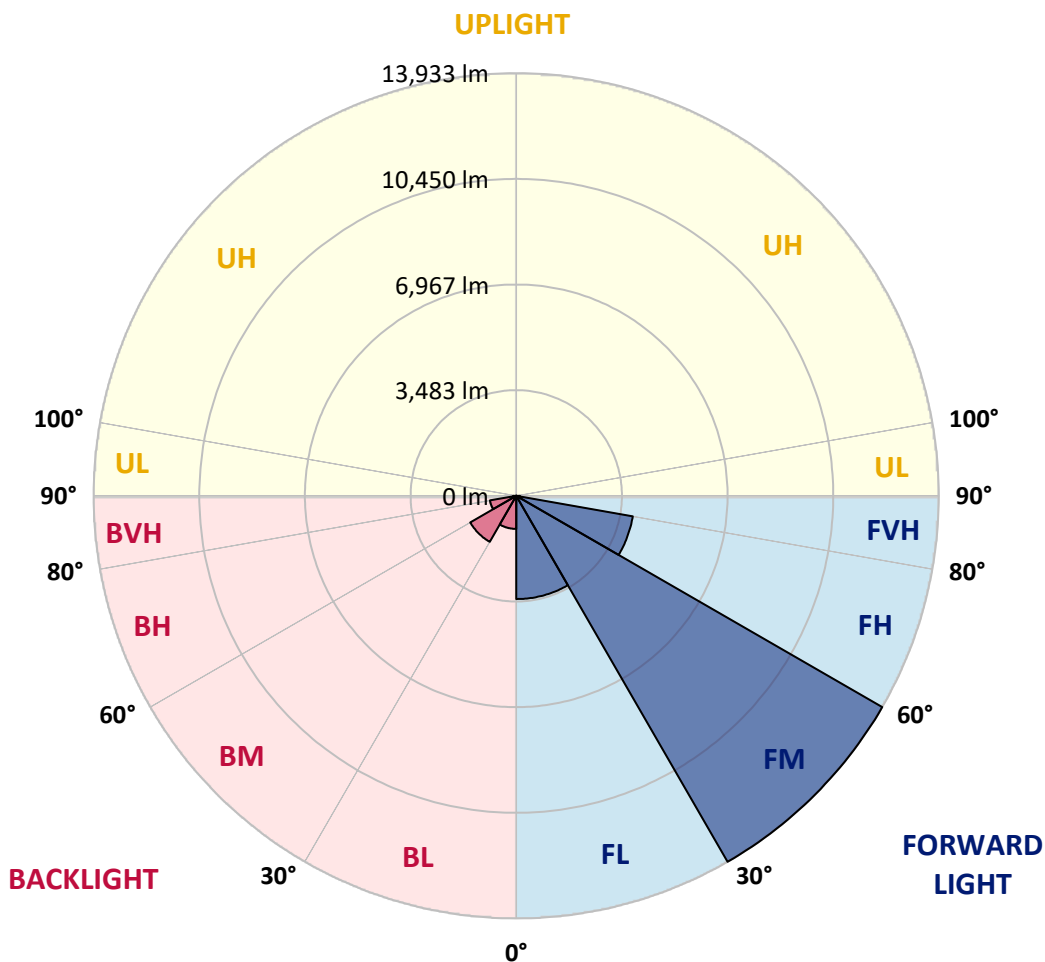


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3404.4	13.5			
FM (30°-60°)	13933.1	55.3			
FH (60°-80°)	3902.6	15.5			G2/5000
FVH (80°-90°)	114.5	0.5			G2/225
BL (0°-30°)	1091.3	4.3	B3/2500		
BM (30°-60°)	1751.2	7.0	B2/2500		
BH (60°-80°)	881.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	106.2	0.4			G2/225
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°	55°	57°	65°	75°	85°
0°	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0
2.5°	6574.4	6502.7	6446.2	6396.6	6331.8	6156.7	5981.7	5978.8	5839.6	5624.6	5404.0
5°	7645.5	7549.1	7561.4	7407.1	7252.7	6999.0	6628.2	6608.8	6312.5	5909.9	5500.5
7.5°	8343.1	8344.5	8305.9	8217.7	8050.9	7762.7	7342.3	7247.1	6835.0	6224.2	5610.8
10°	8307.2	8344.5	8409.3	8485.1	8536.1	8394.2	8010.9	7895.1	7358.8	6604.8	5733.4
12.5°	7830.3	7888.2	7980.6	8170.8	8478.2	8712.6	8581.6	8487.9	7965.4	6983.8	5868.6
15°	7532.5	7567.0	7618.0	7746.2	8077.0	8638.1	8977.3	8927.6	8537.5	7412.6	6020.3
17.5°	7441.6	7476.0	7492.5	7571.1	7806.8	8381.7	9133.1	9221.2	9044.8	7806.8	6173.3
20°	7532.5	7549.1	7549.1	7596.0	7780.7	8231.4	9126.2	9304.0	9461.1	8279.7	6316.6
22.5°	7771.0	7777.9	7768.2	7784.8	7922.6	8272.8	9061.3	9281.9	9797.5	8680.9	6428.3
25°	8158.4	8169.4	8106.0	8067.4	8168.0	8454.8	9097.2	9299.8	10060.8	9064.1	6502.7
27.5°	8598.1	8611.9	8534.7	8445.1	8492.0	8679.5	9237.8	9419.8	10257.9	9441.8	6549.6
30°	9137.1	9142.7	9013.1	8905.6	8875.2	9014.4	9477.7	9647.3	10503.3	9887.1	6619.9
32.5°	9688.6	9729.9	9563.2	9411.5	9360.5	9403.2	9832.0	9996.0	10795.6	10365.5	6732.9
35°	10438.6	10445.5	10245.6	10060.8	9892.7	9947.8	10285.5	10404.1	11199.5	10918.3	6892.8
37.5°	11374.6	11438.0	11162.3	10817.6	10610.8	10530.9	10834.2	10963.8	11766.1	11596.5	7134.1
40°	12414.1	12437.5	12201.7	11986.7	11608.9	11377.4	11586.9	11727.5	12465.0	12405.8	7414.0
42.5°	13067.5	13118.5	13136.4	13114.3	12830.4	12441.6	12521.6	12587.7	13292.2	13165.4	7700.7
45°	13288.1	13363.9	13620.3	14163.5	14193.8	13810.6	13624.4	13687.9	14193.8	13931.8	7975.0
47.5°	12922.7	13052.3	13525.2	14639.0	15473.1	15502.1	14941.0	14801.8	15015.4	14567.4	8173.6
50°	11978.4	12006.0	12729.7	14342.7	16072.8	17119.1	16538.7	16279.5	15795.7	15037.4	8310.1
52.5°	10517.1	10548.8	11155.4	12965.5	15703.3	18249.5	18408.1	17944.9	16588.3	15402.8	8399.6
55°	7806.8	7990.2	8657.4	10406.9	13952.5	18143.4	19894.2	19630.8	17546.5	15692.3	8540.3
57.5°	4800.2	4632.0	5423.3	7080.4	10493.7	16684.9	20353.2	20438.7	18601.0	15934.9	8776.0
60°	2208.5	2241.6	2568.2	3651.8	6396.6	13052.3	19170.4	19710.9	19184.2	15926.6	8835.3
62.5°	1521.9	1491.6	1408.9	1603.3	2917.1	8254.9	16192.7	17108.1	18015.2	15431.8	8599.5
65°	1360.6	1330.3	1170.4	1116.6	1339.9	3598.0	11771.6	12926.9	15168.4	14182.7	8012.3
67.5°	1271.0	1229.7	1064.3	959.5	956.7	1432.3	6941.1	8332.1	11250.5	11990.8	6942.5
70°	1177.3	1144.2	980.2	864.4	814.7	900.2	3050.8	3993.7	7305.1	8640.9	5408.1
72.5°	1083.6	1045.0	897.5	773.4	708.6	674.1	1169.0	1520.6	4127.4	5180.6	3315.5
75°	947.1	927.8	802.3	700.3	630.0	544.5	741.7	846.4	1974.1	2379.4	1664.0
77.5°	828.5	807.8	712.7	612.1	561.1	442.6	526.6	574.9	832.6	965.0	751.3
80°	606.6	627.3	601.0	540.4	500.4	347.4	354.3	394.2	494.9	547.3	459.1
82.5°	384.6	423.2	463.2	416.3	379.1	274.4	245.4	260.6	337.8	358.5	204.0
85°	161.3	164.0	268.8	253.7	216.4	162.7	147.5	155.8	180.6	188.9	95.1
87.5°	62.0	60.7	95.1	88.2	67.6	46.9	46.9	52.4	71.7	66.2	30.3
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°	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0	5291.0
2.5°	5308.9	5211.0	5016.6	4775.4	4599.0	4400.4	4225.3	4099.9	4053.0	4031.0	3989.6
5°	5304.7	5111.7	4709.2	4287.4	3948.2	3600.9	3307.2	3117.0	3100.4	2973.6	2961.1
7.5°	5306.2	5011.1	4370.1	3749.7	3232.8	2877.1	2634.5	2571.1	2495.2	2475.9	2485.6
10°	5310.2	4882.9	4006.1	3217.6	2717.2	2484.2	2393.2	2368.4	2371.2	2379.4	2380.8
12.5°	5315.8	4758.8	3628.4	2813.6	2427.7	2331.1	2321.5	2343.6	2367.0	2384.9	2389.1
15°	5322.7	4616.8	3260.3	2488.3	2282.9	2274.6	2306.3	2343.6	2376.6	2402.9	2407.0
17.5°	5314.4	4451.4	2951.5	2288.4	2203.0	2242.9	2295.3	2342.2	2372.5	2397.3	2400.1
20°	5295.1	4266.6	2653.7	2147.8	2153.3	2218.1	2274.6	2318.8	2351.8	2364.3	2373.9
22.5°	5220.7	4046.1	2394.6	2038.9	2094.1	2183.6	2251.2	2277.4	2240.2	2214.0	2220.9
25°	5093.8	3759.3	2153.3	1950.7	2040.3	2135.4	2204.3	2141.0	2110.6	2099.5	2105.1
27.5°	4935.2	3445.0	1971.4	1858.3	1971.4	2081.6	2062.3	2051.3	2037.5	2019.6	2023.7
30°	4764.3	3137.6	1817.0	1786.6	1896.9	1960.3	1968.6	1986.5	1971.4	1943.8	1954.8
32.5°	4605.8	2848.2	1699.8	1726.0	1844.5	1834.9	1896.9	1917.6	1847.3	1754.9	1759.1
35°	4470.7	2579.3	1611.6	1666.7	1754.9	1759.1	1821.1	1749.4	1673.6	1629.5	1632.2
37.5°	4368.7	2369.7	1553.6	1615.7	1640.5	1692.9	1659.8	1622.6	1612.9	1582.6	1584.0
40°	4308.1	2186.4	1516.4	1575.7	1571.6	1607.4	1501.2	1538.5	1552.3	1542.6	1544.0
42.5°	4247.4	2056.9	1477.8	1520.6	1519.2	1448.9	1425.5	1457.2	1493.0	1497.1	1494.4
45°	4199.2	1956.2	1437.8	1436.5	1464.1	1353.7	1346.8	1366.2	1417.2	1442.0	1440.6
47.5°	4145.4	1872.1	1377.2	1338.6	1346.8	1294.5	1283.4	1291.7	1353.7	1393.7	1404.8
50°	4077.8	1788.0	1301.3	1249.0	1214.5	1239.3	1242.1	1243.5	1305.5	1351.0	1360.6
52.5°	4024.1	1724.6	1214.5	1175.9	1134.6	1189.7	1210.4	1213.2	1250.4	1287.6	1294.5
55°	4055.8	1688.8	1129.1	1101.4	1064.3	1138.7	1178.6	1184.2	1192.4	1220.1	1224.1
57.5°	4150.8	1697.0	1060.1	1024.2	996.7	1078.0	1145.6	1149.8	1144.2	1177.3	1182.8
60°	4179.8	1692.9	1009.1	938.8	922.3	1013.3	1097.4	1105.6	1104.3	1152.5	1162.1
62.5°	4058.5	1640.5	958.1	867.1	856.1	947.1	1029.8	1062.8	1069.7	1138.7	1151.1
65°	3773.1	1533.0	890.6	791.3	791.3	876.8	965.0	1010.5	1029.8	1122.2	1136.0
67.5°	3396.8	1406.1	821.6	726.5	723.7	809.2	896.1	943.0	973.3	1098.7	1107.0
70°	2819.2	1235.2	736.2	656.2	656.2	733.4	812.0	868.5	912.6	1054.6	1054.6
72.5°	1931.3	1027.1	632.7	576.2	577.6	649.3	729.3	792.7	845.1	966.4	969.1
75°	1221.4	802.3	519.8	490.8	496.3	563.8	646.5	712.7	817.5	955.3	959.5
77.5°	649.3	563.8	413.6	406.7	413.6	475.6	568.0	659.0	820.3	828.5	814.7
80°	420.5	399.8	326.7	313.0	315.7	383.3	506.0	625.9	659.0	667.2	636.9
82.5°	228.9	253.7	231.6	217.8	217.8	299.2	431.5	497.7	472.9	392.9	375.0
85°	97.9	118.5	120.0	104.8	100.6	184.7	289.5	271.5	252.3	241.2	238.5
87.5°	27.6	38.6	38.6	29.0	22.1	51.0	57.9	16.5	0.0	1.4	2.7
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)