

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: P531858

Luminaire Tested: **GALN-SA7A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21580 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

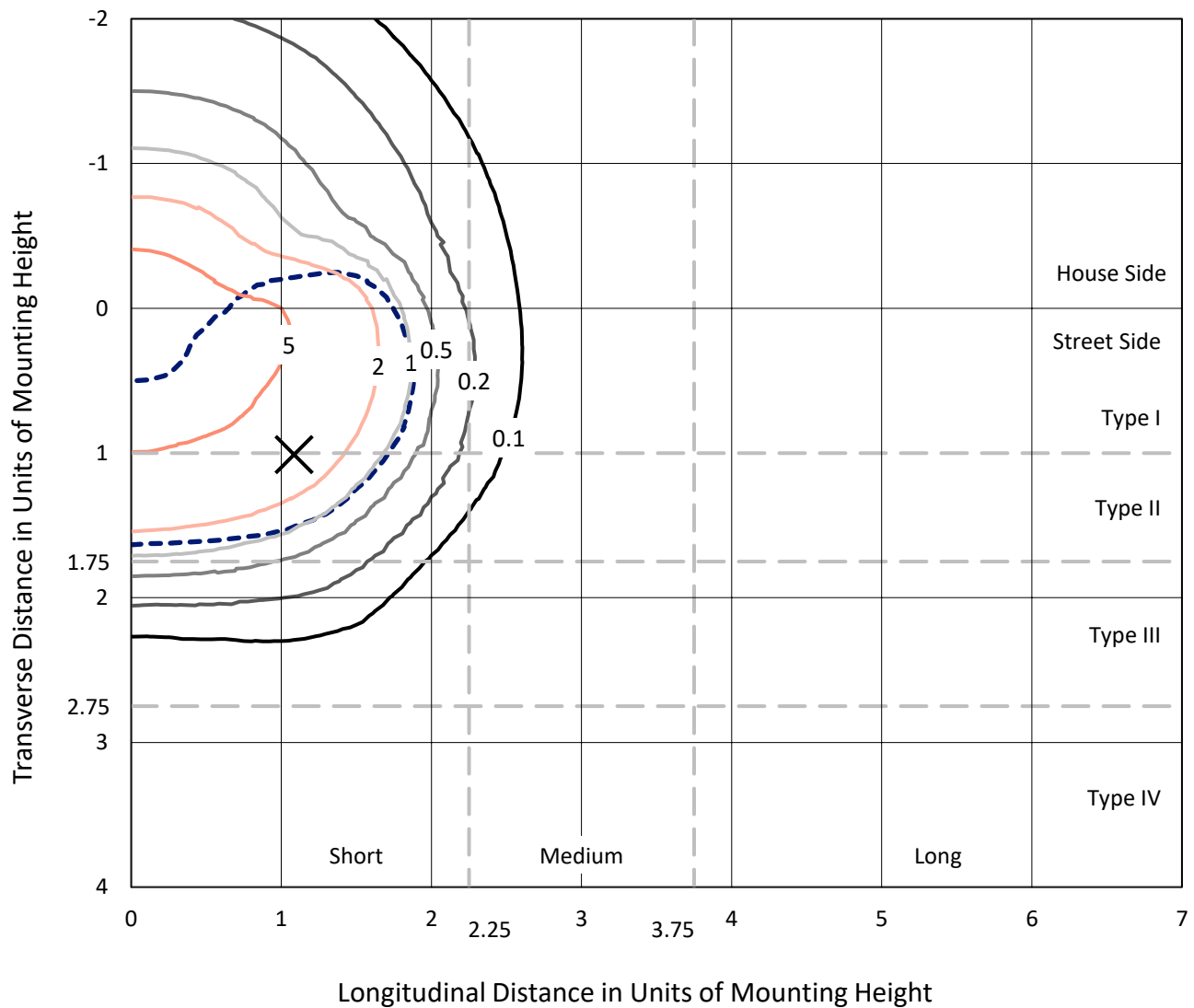


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Iso-Footcandle Lines of Horizontal Illumination

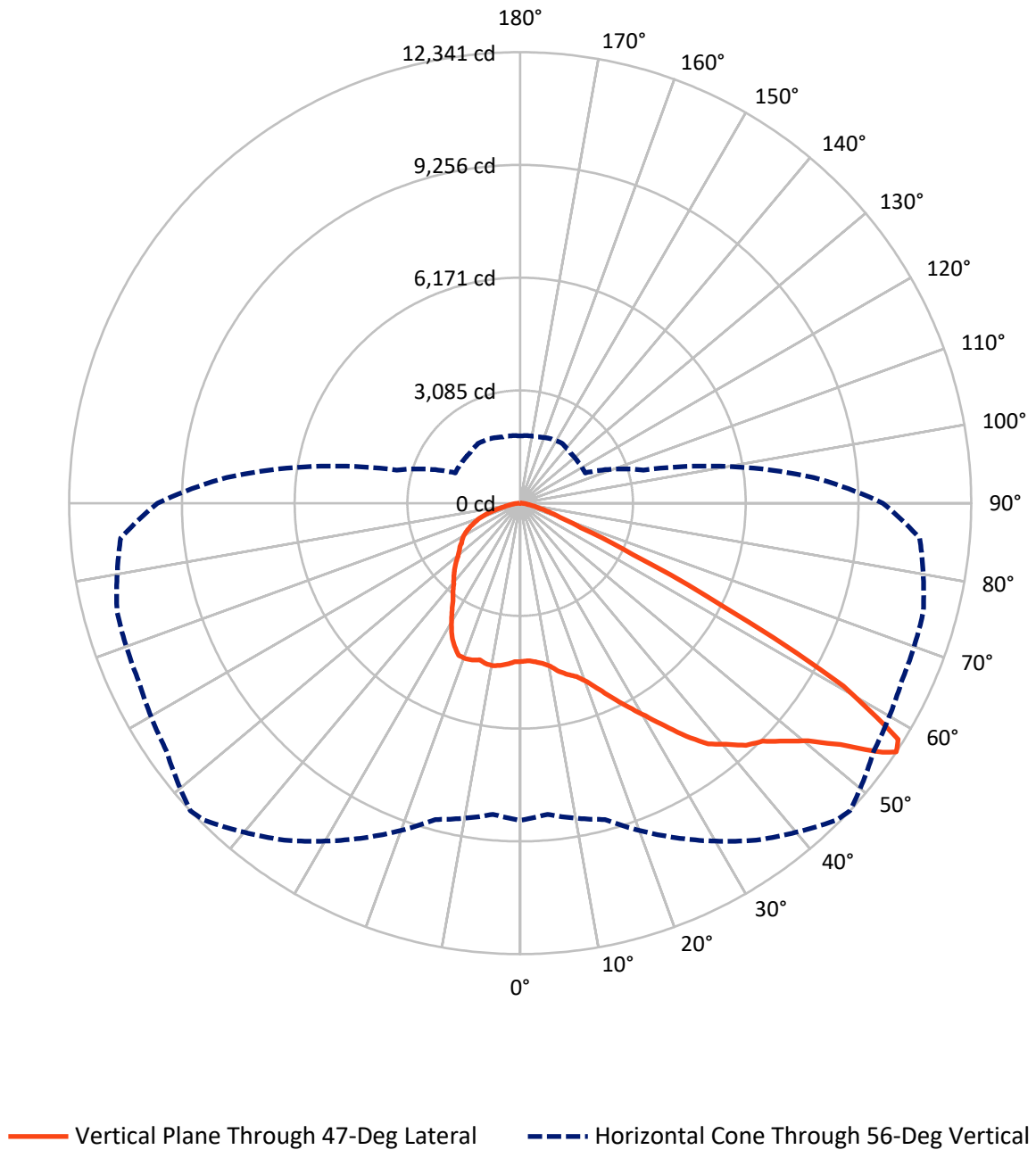
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6838.4	0.0	6838.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	14741.6	0.0	14741.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	21580.0	0.0	21580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.4	2.0
10°-20°	1332.3	6.2
20°-30°	2355.3	10.9
30°-40°	3537.5	16.4
40°-50°	4854.9	22.5
50°-60°	5784.0	26.8
60°-70°	2475.2	11.5
70°-80°	700.5	3.2
80°-90°	117.9	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°	21580.0	100.0
0°-180°	21580.0	100.0

Coefficient of Utilization



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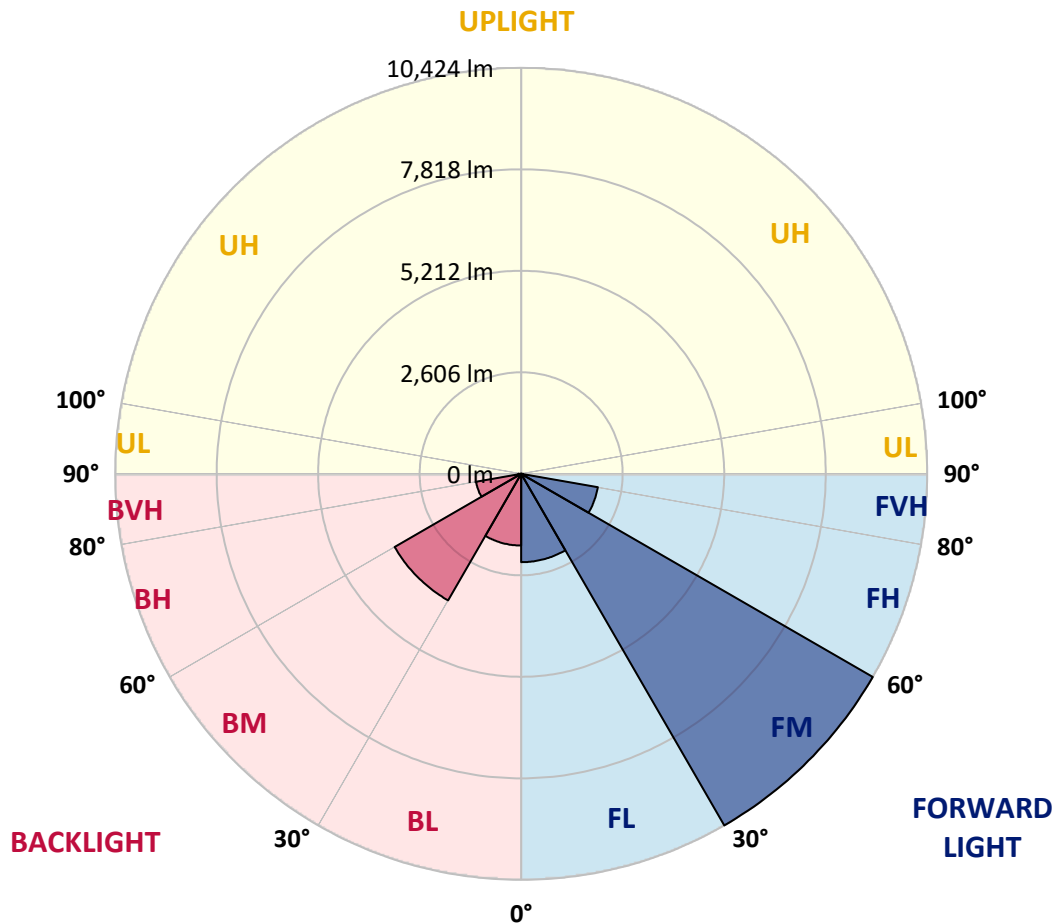
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2268.8	10.5			
FM	(30°-60°)	10423.6	48.3			
FH	(60°-80°)	1999.1	9.3			G2/5000
FVH	(80°-90°)	50.0	0.2			G1/100
BL	(0°-30°)	1841.2	8.5	B3/2500		
BM	(30°-60°)	3752.8	17.4	B3/5000		
BH	(60°-80°)	1176.6	5.5	B3/2500		G3/2500
BVH	(80°-90°)	67.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8
2.5°	4318.3	4310.0	4304.5	4348.5	4332.0	4334.8	4318.3	4334.8	4345.8	4321.0	4356.8
5°	4310.0	4334.8	4312.7	4326.5	4362.3	4351.3	4362.3	4395.3	4387.1	4378.8	4367.8
7.5°	4387.1	4389.8	4406.3	4411.8	4422.8	4411.8	4428.3	4458.6	4450.4	4403.6	4409.1
10°	4497.1	4502.7	4505.4	4535.7	4554.9	4557.7	4538.4	4510.9	4508.2	4571.5	4527.4
12.5°	4623.8	4610.0	4643.0	4654.0	4676.0	4700.8	4725.6	4667.8	4703.6	4706.3	4654.0
15°	4808.2	4821.9	4783.4	4783.4	4791.6	4794.4	4863.2	4835.7	4830.2	4799.9	4821.9
17.5°	5083.4	4989.8	4987.0	4948.5	4943.0	4965.0	4989.8	5011.8	5086.1	5025.6	4907.2
20°	5284.3	5306.3	5226.5	5179.7	5188.0	5237.5	5212.7	5311.8	5364.1	5265.0	5149.4
22.5°	5639.3	5565.0	5584.3	5479.7	5488.0	5540.2	5537.5	5639.3	5669.6	5512.7	5344.8
25°	5878.8	5859.5	5876.0	5793.4	5804.5	5845.7	5911.8	6079.7	6030.1	5856.8	5468.7
27.5°	6228.3	6189.8	6176.0	6145.7	6134.7	6244.8	6321.9	6500.8	6465.0	6211.8	5688.9
30°	6586.1	6561.3	6575.1	6451.2	6495.3	6729.2	6751.2	6996.2	6979.7	6533.8	5933.8
32.5°	6833.8	6847.6	6872.3	6803.5	6998.9	7186.1	7260.4	7538.4	7552.1	7087.0	6407.2
35°	7232.9	7186.1	7199.8	7279.7	7370.5	7711.8	7832.9	8017.3	8132.8	7667.7	6861.3
37.5°	7483.3	7532.9	7475.1	7601.7	7838.4	8248.4	8358.5	8548.4	8669.5	8240.2	7480.6
40°	7874.1	7794.3	7835.6	7926.4	8168.6	8702.6	8672.3	8867.7	8906.2	8727.3	8058.5
42.5°	8295.2	8256.7	8198.9	8405.3	8609.0	8997.0	9057.6	8966.8	9162.2	9203.5	8884.2
45°	8798.9	8845.7	8853.9	8859.4	9038.3	9376.9	9294.3	9214.5	9440.2	9740.2	9396.1
47.5°	9266.8	9118.1	9225.5	9374.1	9627.3	9630.1	9726.4	9536.5	9775.9	10042.9	9858.5
50°	9423.6	9352.1	9495.2	9775.9	10166.7	10208.0	10219.0	9949.3	10073.2	10285.1	10018.1
52.5°	9363.1	9338.3	9704.4	10139.2	10711.7	10920.9	10975.9	10642.9	10711.7	10615.4	10370.4
55°	9074.1	9148.4	9517.2	10403.4	11281.4	11928.2	12032.8	11611.7	11174.1	11248.4	10978.7
56°	8677.8	8548.4	8961.3	10103.4	11256.6	12255.7	12341.0	11815.3	11518.1	11421.8	10973.2
57.5°	7362.2	7194.3	7736.5	9090.6	10631.9	12131.8	12195.1	11900.7	11460.3	11264.9	10172.3
60°	4310.0	4392.6	5080.6	6269.6	8201.7	9946.6	10158.5	10373.2	10078.7	9203.5	7571.4
62.5°	2080.7	2028.4	2521.0	3594.4	4998.1	6349.4	6286.1	6888.8	7219.1	6539.3	4780.6
65°	1089.9	1084.4	1376.1	1962.3	2746.7	3335.7	3393.5	3718.3	4172.4	3368.7	2427.5
67.5°	800.9	822.9	968.8	1378.9	1766.9	1802.7	1794.5	1956.8	2000.9	1692.6	1491.7
70°	627.5	638.5	745.9	1048.6	1315.6	1178.0	1153.2	1172.5	1301.8	1356.9	1290.8
72.5°	454.1	465.1	556.0	707.3	822.9	803.7	820.2	927.5	1087.1	1144.9	1076.1
75°	302.7	311.0	360.5	432.1	487.1	525.7	556.0	679.8	828.4	861.4	828.4
77.5°	209.2	217.4	250.5	305.5	311.0	335.8	346.8	404.6	495.4	536.7	514.7
80°	118.3	118.3	134.9	156.9	192.7	225.7	231.2	278.0	319.3	346.8	352.3
82.5°	55.0	57.8	71.6	96.3	126.6	156.9	162.4	192.7	222.9	250.5	258.7
85°	27.5	30.3	41.3	57.8	77.1	93.6	90.8	93.6	99.1	93.6	96.3
87.5°	8.3	8.3	11.0	13.8	11.0	13.8	13.8	16.5	19.3	22.0	24.8
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°	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8
2.5°	4359.5	4367.8	4312.7	4365.0	4345.8	4343.0	4381.6	4376.0	4389.8	4384.3	4351.3
5°	4362.3	4343.0	4400.8	4348.5	4373.3	4425.6	4389.8	4472.4	4431.1	4458.6	4398.1
7.5°	4447.6	4453.1	4442.1	4464.1	4453.1	4477.9	4458.6	4477.9	4444.9	4447.6	4502.7
10°	4521.9	4505.4	4524.7	4497.1	4516.4	4508.2	4464.1	4450.4	4461.4	4447.6	4483.4
12.5°	4659.5	4629.3	4615.5	4582.5	4560.4	4477.9	4409.1	4370.5	4422.8	4431.1	4414.6
15°	4799.9	4802.6	4739.3	4665.0	4527.4	4403.6	4420.1	4433.8	4433.8	4455.9	4414.6
17.5°	4888.0	4888.0	4830.2	4681.5	4541.2	4469.6	4453.1	4409.1	4370.5	4365.0	4362.3
20°	5042.1	4995.3	4863.2	4678.8	4535.7	4502.7	4378.8	4274.2	4194.4	4166.9	4164.1
22.5°	5218.2	5099.9	4915.5	4684.3	4527.4	4480.6	4249.4	4092.6	3949.5	3888.9	3897.2
25°	5380.6	5190.7	4945.8	4659.5	4497.1	4271.5	4012.8	3795.3	3646.7	3597.2	3572.4
27.5°	5493.5	5287.0	4945.8	4681.5	4384.3	4037.5	3773.3	3495.3	3366.0	3333.0	3338.5
30°	5644.8	5408.1	5031.1	4634.8	4158.6	3734.8	3418.3	3236.6	3159.6	3132.0	3151.3
32.5°	5999.9	5724.6	5149.4	4521.9	3891.7	3432.0	3176.1	3074.2	2961.4	2906.4	2887.1
35°	6385.2	6024.6	5265.0	4332.0	3591.7	3156.8	2997.2	2903.6	2768.7	2708.2	2719.2
37.5°	6930.1	6409.9	5273.3	4018.3	3266.9	3002.7	2856.8	2710.9	2600.9	2507.3	2479.8
40°	7665.0	6935.6	5254.0	3688.0	3005.4	2821.0	2713.7	2532.1	2408.2	2342.1	2355.9
42.5°	8311.7	7552.1	5174.2	3313.7	2768.7	2697.2	2576.1	2397.2	2276.1	2207.3	2201.8
45°	8856.7	8006.2	5022.8	2994.4	2570.6	2559.6	2419.2	2281.6	2185.3	2122.0	2149.5
47.5°	9360.3	8372.3	4794.4	2675.2	2388.9	2411.0	2276.1	2190.8	2130.2	2072.4	2069.7
50°	9542.0	8366.8	4593.5	2411.0	2243.1	2232.1	2226.6	2135.7	2072.4	2022.9	2044.9
52.5°	9844.7	8460.4	4376.0	2229.3	2111.0	2113.7	2133.0	2066.9	1995.4	1965.1	1992.6
55°	10279.6	8474.1	3897.2	2017.4	2000.9	2020.1	2020.1	1976.1	1915.6	1890.8	1877.0
56°	9924.6	8064.0	3495.3	1962.3	1945.8	1945.8	1998.1	1948.6	1874.3	1855.0	1838.5
57.5°	9153.9	7065.0	2925.6	1896.3	1871.5	1910.0	1937.6	1885.3	1816.5	1789.0	1805.5
60°	6313.6	4780.6	2199.0	1753.2	1753.2	1816.5	1838.5	1761.4	1731.2	1728.4	1706.4
62.5°	3685.2	2785.3	1720.1	1623.8	1629.3	1681.6	1698.1	1654.1	1615.6	1662.3	1684.4
65°	1954.1	1662.3	1475.2	1486.2	1489.0	1530.2	1601.8	1599.0	1596.3	1610.1	1612.8
67.5°	1414.6	1381.6	1340.3	1329.3	1334.8	1365.1	1436.7	1491.7	1489.0	1455.9	1431.2
70°	1260.5	1213.7	1189.0	1191.7	1169.7	1205.5	1263.3	1299.1	1235.8	1197.2	1180.7
72.5°	1048.6	1034.8	1018.3	1021.1	977.0	968.8	902.7	902.7	886.2	875.2	894.5
75°	800.9	795.4	803.7	789.9	743.1	693.6	655.0	619.3	564.2	542.2	531.2
77.5°	506.4	522.9	542.2	511.9	492.6	456.9	418.3	382.6	338.5	313.8	313.8
80°	344.0	357.8	371.6	366.0	344.0	311.0	280.7	242.2	211.9	192.7	189.9
82.5°	261.5	272.5	291.7	269.7	247.7	220.2	195.4	167.9	140.4	118.3	118.3
85°	93.6	107.3	118.3	129.4	137.6	140.4	121.1	99.1	79.8	63.3	60.5
87.5°	24.8	27.5	30.3	27.5	27.5	27.5	30.3	27.5	24.8	19.3	19.3
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)