

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: P459423

Luminaire Tested: **GALN-SA8D-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56960 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

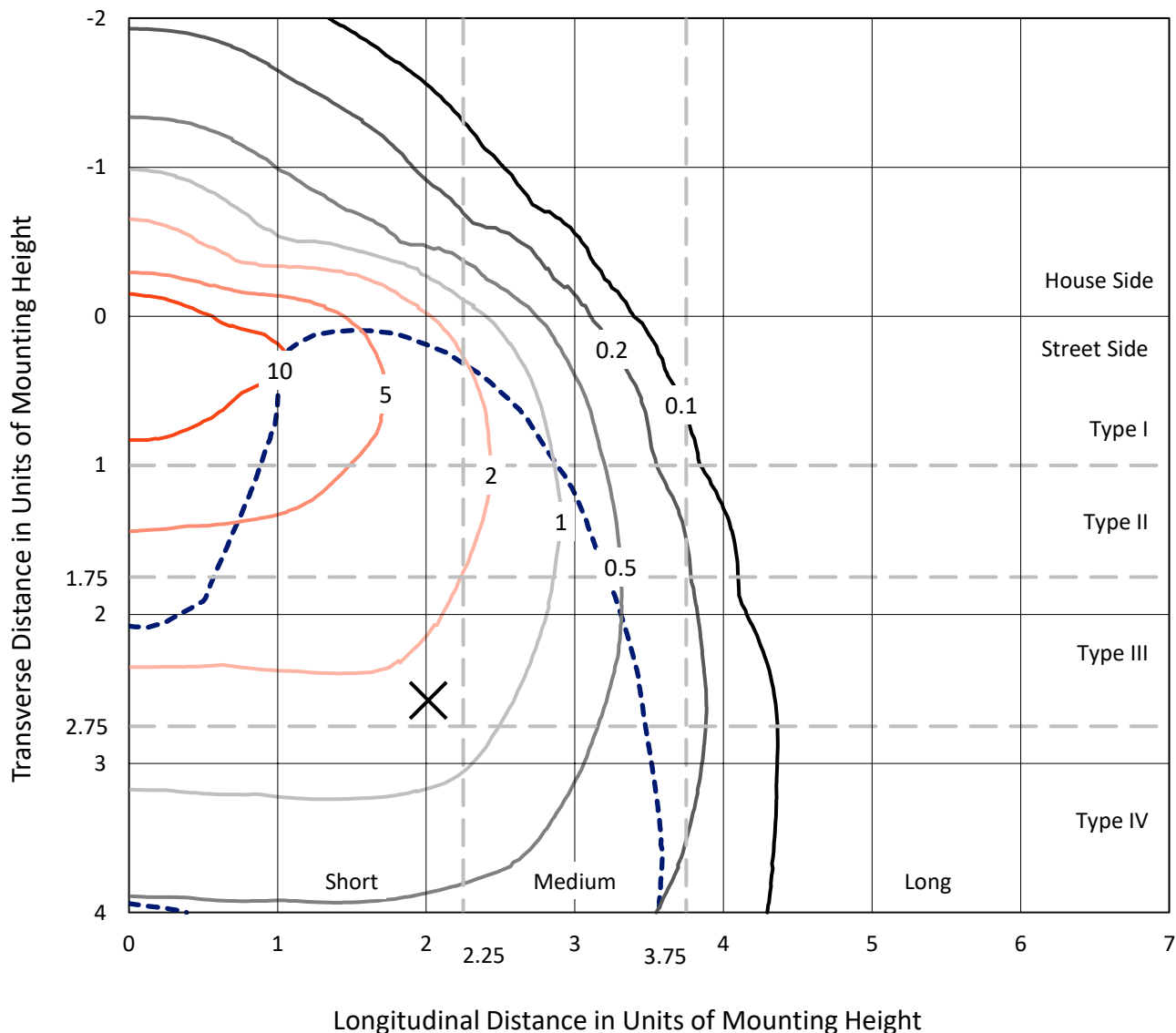
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

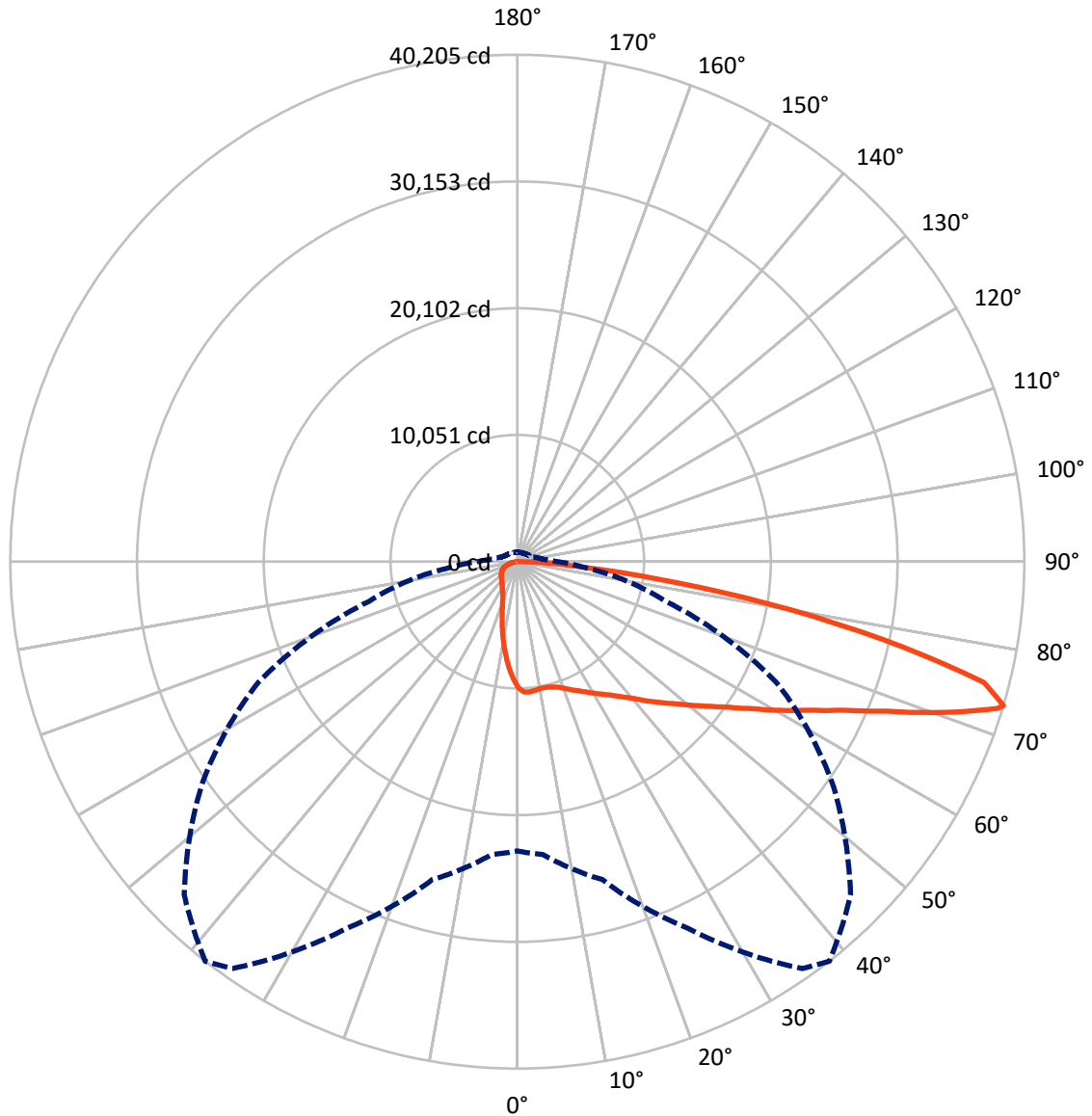
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7657.1	0.0	7657.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	49302.9	0.0	49302.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	56960.0	0.0	56960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.5	1.5
10°-20°	2239.9	3.9
20°-30°	3488.0	6.1
30°-40°	5116.1	9.0
40°-50°	7589.1	13.3
50°-60°	10752.3	18.9
60°-70°	13639.6	23.9
70°-80°	11353.9	19.9
80°-90°	1907.6	3.3
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°	56960.0	100.0
0°-180°	56960.0	100.0

Coefficient of Utilization



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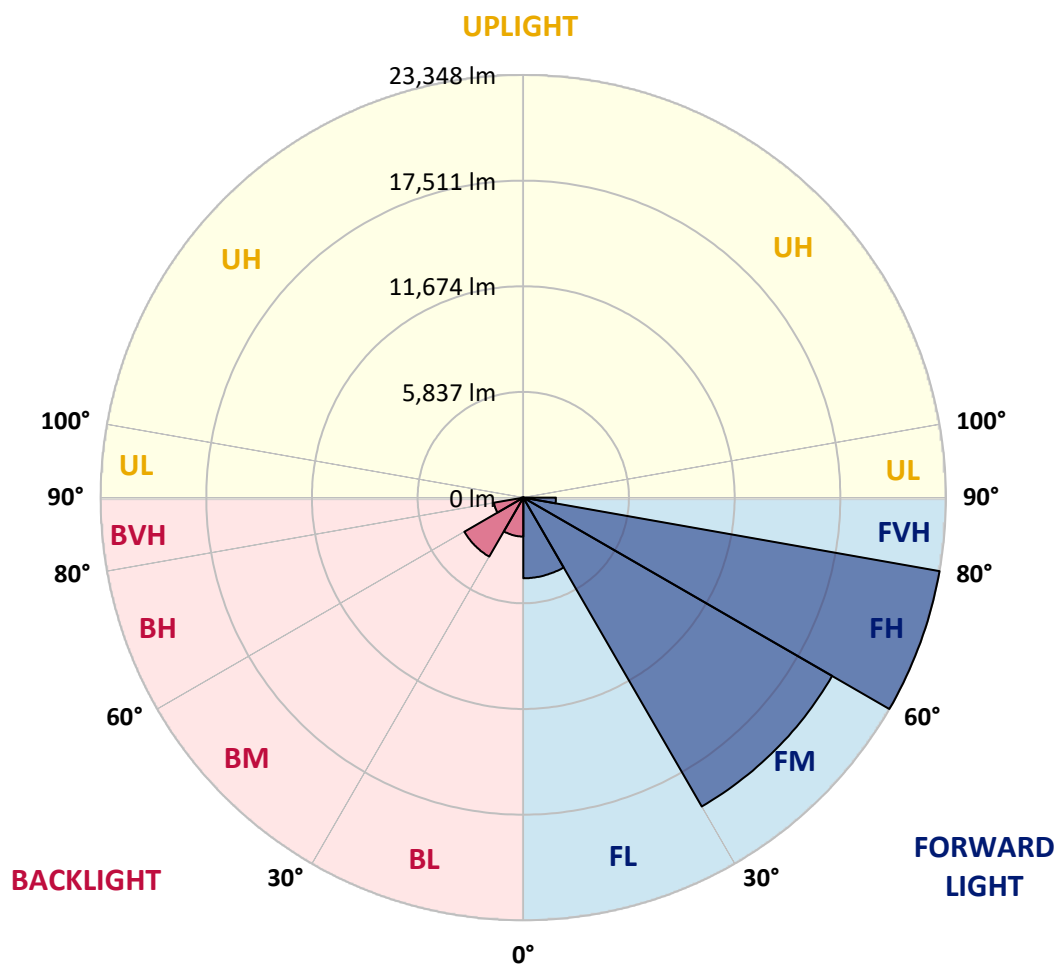
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4452.7	7.8			
FM	(30°-60°)	19698.3	34.6			
FH	(60°-80°)	23347.7	41.0			G5
FVH	(80°-90°)	1804.2	3.2			G5
BL	(0°-30°)	2148.7	3.8	B3/2500		
BM	(30°-60°)	3759.2	6.6	B3/5000		
BH	(60°-80°)	1645.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	103.4	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9
2.5°	10409.0	10460.5	10434.7	10399.3	10376.8	10354.3	10322.1	10228.9	10154.9	10074.5	9949.0
5°	10486.2	10518.3	10495.8	10450.8	10399.3	10376.8	10315.7	10193.5	10074.5	9939.4	9752.8
7.5°	10441.2	10454.0	10428.3	10373.6	10328.6	10286.8	10216.0	10080.9	9936.1	9772.1	9527.6
10°	10280.3	10328.6	10328.6	10283.5	10238.5	10216.0	10145.2	10016.6	9884.7	9698.1	9408.6
12.5°	10148.4	10199.9	10241.7	10228.9	10225.6	10225.6	10171.0	10074.5	9920.1	9743.1	9399.0
15°	10058.4	10119.5	10209.6	10261.0	10293.2	10302.8	10280.3	10196.7	10039.1	9833.2	9437.6
17.5°	10039.1	10113.1	10277.1	10389.7	10473.3	10470.1	10463.7	10347.9	10174.2	9961.9	9485.8
20°	10125.9	10222.4	10450.8	10627.7	10749.9	10727.4	10692.0	10540.9	10338.2	10100.2	9530.8
22.5°	10386.5	10486.2	10737.1	10930.1	11049.1	11049.1	10942.9	10743.5	10528.0	10261.0	9592.0
25°	10759.6	10869.0	11135.9	11332.2	11386.8	11345.0	11238.9	10997.6	10749.9	10492.6	9720.6
27.5°	11216.4	11348.2	11595.9	11760.0	11743.9	11711.7	11602.4	11293.6	11045.9	10811.1	9939.4
30°	11785.7	11882.2	12139.5	12178.1	12120.2	12113.8	11959.4	11650.6	11419.0	11238.9	10251.4
32.5°	12322.9	12409.7	12615.6	12631.7	12528.7	12541.6	12396.9	12113.8	11981.9	11917.6	10775.7
35°	12892.2	12937.2	13114.2	13094.9	13027.3	13017.7	12959.8	12689.6	12731.4	12847.2	11518.7
37.5°	13368.3	13458.3	13558.1	13574.1	13570.9	13603.1	13641.7	13513.0	13754.3	14117.7	12493.4
40°	13805.7	13882.9	14030.9	14082.4	14207.8	14272.1	14404.0	14407.2	14963.7	15562.0	13693.2
42.5°	14101.7	14233.5	14510.2	14603.5	14909.0	15102.0	15298.2	15507.3	16314.7	17083.5	15108.5
45°	14359.0	14532.7	14992.7	15282.2	15697.1	15931.9	16346.9	16784.3	17945.5	18952.3	16546.3
47.5°	14748.2	14902.6	15430.1	15941.6	16568.8	16839.0	17459.8	18112.8	19631.0	20734.3	17923.0
50°	15288.6	15381.9	15919.1	16752.2	17553.1	17900.5	18720.7	19663.2	21432.3	22493.8	19132.5
52.5°	15980.2	16018.8	16446.6	17556.3	18611.4	19042.4	20129.6	21229.7	23008.5	24021.7	20091.0
55°	16797.2	16732.9	17067.4	18408.7	19820.8	20383.7	21551.4	22815.5	24780.8	25256.9	20789.0
57.5°	17604.6	17504.8	17771.8	19444.5	21313.3	21992.0	23352.7	24449.5	26363.4	26411.7	21277.9
60°	18460.2	18386.2	18704.6	20660.4	23143.6	23947.7	25205.4	26144.7	27894.5	27215.8	21355.1
62.5°	19338.3	19219.3	19672.9	22027.4	25205.4	25935.6	27154.7	27946.0	29396.7	27515.0	20612.1
65°	20190.7	20136.0	20837.3	23651.8	27553.6	28383.5	29567.2	30104.4	30599.7	27064.6	18769.0
67.5°	21097.8	21207.2	22326.6	25819.8	30615.8	31658.0	32935.0	32430.0	30943.9	24932.0	15806.5
70°	22481.0	22551.7	24282.3	28660.1	34562.6	35820.3	36437.9	33256.6	29284.1	20882.3	11882.2
72.5°	23076.0	23388.0	26028.9	31641.9	39046.6	39815.3	37615.2	31413.5	24394.9	14185.3	6243.5
73°	22944.2	23317.3	26109.3	32095.4	39397.2	40204.5	37364.3	30464.6	22677.2	12216.7	5352.5
75°	21300.5	21760.4	25063.9	31715.9	38715.2	38232.8	33330.6	25964.6	15324.0	5555.1	2438.2
77.5°	16806.8	16938.7	19859.4	25610.7	30487.1	29592.9	24944.9	16227.9	6259.5	2065.1	1383.1
80°	8430.8	8916.5	11193.8	14671.0	20386.9	20094.2	15745.4	7674.9	2608.7	1212.7	916.7
82.5°	4056.2	4400.3	5452.2	7153.8	11264.6	10997.6	7797.1	4194.5	1656.6	707.7	540.4
85°	2611.9	2869.2	3470.7	3412.8	4631.9	4422.9	3502.9	3174.8	981.1	369.9	376.3
87.5°	1724.1	1888.2	2264.5	1811.0	1685.5	1524.7	1547.2	1788.4	193.0	141.5	51.5
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°	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9	10006.9
2.5°	9897.5	9855.7	9717.4	9582.3	9453.6	9331.4	9251.0	9144.9	9074.1	9093.4	9122.3
5°	9649.9	9556.6	9312.1	9074.1	8848.9	8581.9	8366.4	8192.7	8060.9	8012.6	8003.0
7.5°	9389.3	9231.7	8881.1	8472.6	8089.8	7758.5	7375.7	7185.9	6964.0	6886.8	6861.1
10°	9231.7	9019.4	8527.3	7957.9	7382.1	6832.1	6417.2	6079.4	5773.8	5715.9	5687.0
12.5°	9186.7	8906.8	8244.2	7510.8	6745.3	6069.8	5455.4	5011.5	4715.6	4648.0	4548.3
15°	9160.9	8813.5	7980.4	7060.5	6089.1	5265.6	4619.1	4101.2	3831.0	3650.9	3654.1
17.5°	9138.4	8707.4	7684.5	6568.3	5522.9	4574.0	3859.9	3393.5	3145.9	3049.4	3039.7
20°	9106.3	8581.9	7343.5	6050.5	4876.4	3943.6	3297.0	2949.6	2782.4	2702.0	2698.7
22.5°	9093.4	8459.7	7009.0	5522.9	4303.8	3457.9	2923.9	2679.4	2573.3	2518.6	2518.6
25°	9125.6	8372.9	6658.4	5021.1	3795.6	3042.9	2666.6	2499.3	2438.2	2409.2	2399.6
27.5°	9225.3	8334.3	6311.0	4519.4	3329.2	2759.9	2492.9	2377.1	2332.0	2309.5	2312.8
30°	9415.0	8331.0	5970.0	4024.0	2981.8	2544.3	2354.6	2274.2	2238.8	2225.9	2222.7
32.5°	9720.6	8401.8	5635.5	3615.5	2689.1	2364.2	2225.9	2168.0	2151.9	2142.3	2139.1
35°	10238.5	8601.2	5304.2	3242.4	2463.9	2203.4	2103.7	2074.7	2052.2	2061.9	2065.1
37.5°	10936.5	8945.4	4989.0	2949.6	2293.5	2084.4	2000.7	1975.0	1962.1	1971.8	1981.4
40°	11872.5	9440.8	4725.2	2714.8	2171.2	1984.7	1910.7	1888.2	1875.3	1891.4	1894.6
42.5°	12905.1	10013.3	4506.5	2531.5	2071.5	1901.0	1830.3	1804.5	1794.9	1804.5	1807.7
45°	13966.6	10679.2	4393.9	2399.6	1987.9	1839.9	1765.9	1737.0	1714.5	1708.0	1717.7
47.5°	15012.0	11258.2	4390.7	2319.2	1920.3	1785.2	1704.8	1672.6	1643.7	1627.6	1624.4
50°	15864.4	11718.1	4467.9	2283.8	1862.4	1724.1	1643.7	1611.5	1572.9	1540.8	1547.2
52.5°	16507.7	12017.3	4503.3	2267.7	1830.3	1659.8	1579.4	1550.4	1505.4	1463.6	1463.6
55°	16922.6	12088.1	4416.4	2251.6	1804.5	1592.2	1505.4	1479.6	1434.6	1392.8	1392.8
57.5°	17064.2	11869.3	4104.4	2213.0	1778.8	1534.3	1431.4	1408.9	1373.5	1331.7	1325.2
60°	16736.1	11129.5	3557.6	2097.2	1727.3	1473.2	1351.0	1341.3	1328.5	1293.1	1289.9
62.5°	15471.9	9559.8	2962.5	1946.1	1640.5	1408.9	1277.0	1293.1	1302.7	1283.4	1280.2
65°	13368.3	7761.7	2531.5	1737.0	1524.7	1318.8	1196.6	1238.4	1264.1	1264.1	1257.7
67.5°	10843.2	5960.4	2132.6	1556.8	1379.9	1196.6	1106.5	1138.7	1158.0	1151.6	1167.6
70°	7707.0	4036.9	1737.0	1351.0	1196.6	1058.3	990.7	990.7	977.9	971.4	971.4
72.5°	3737.7	2306.3	1408.9	1129.0	1019.7	903.9	849.2	826.7	800.9	797.7	781.6
73°	3123.3	2068.3	1344.5	1087.2	977.9	881.4	820.2	784.9	768.8	755.9	752.7
75°	1901.0	1569.7	1122.6	916.7	833.1	759.1	704.4	672.3	656.2	646.5	643.3
77.5°	1251.3	1170.8	871.7	701.2	636.9	591.9	569.3	537.2	527.5	514.7	514.7
80°	932.8	894.2	624.0	495.4	456.8	418.2	411.7	405.3	379.6	363.5	357.0
82.5°	601.5	636.9	424.6	331.3	289.5	257.3	260.5	270.2	244.5	221.9	215.5
85°	427.8	460.0	257.3	151.2	122.2	106.1	119.0	106.1	109.4	86.8	70.8
87.5°	70.8	122.2	45.0	19.3	9.6	6.4	0.0	0.0	0.0	0.0	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)