

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: P457335

Luminaire Tested: **GALN-SA8C-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457335
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-SA8C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 44158 lumens
Efficiency: N/A
Efficacy: 102.9 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): 429
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

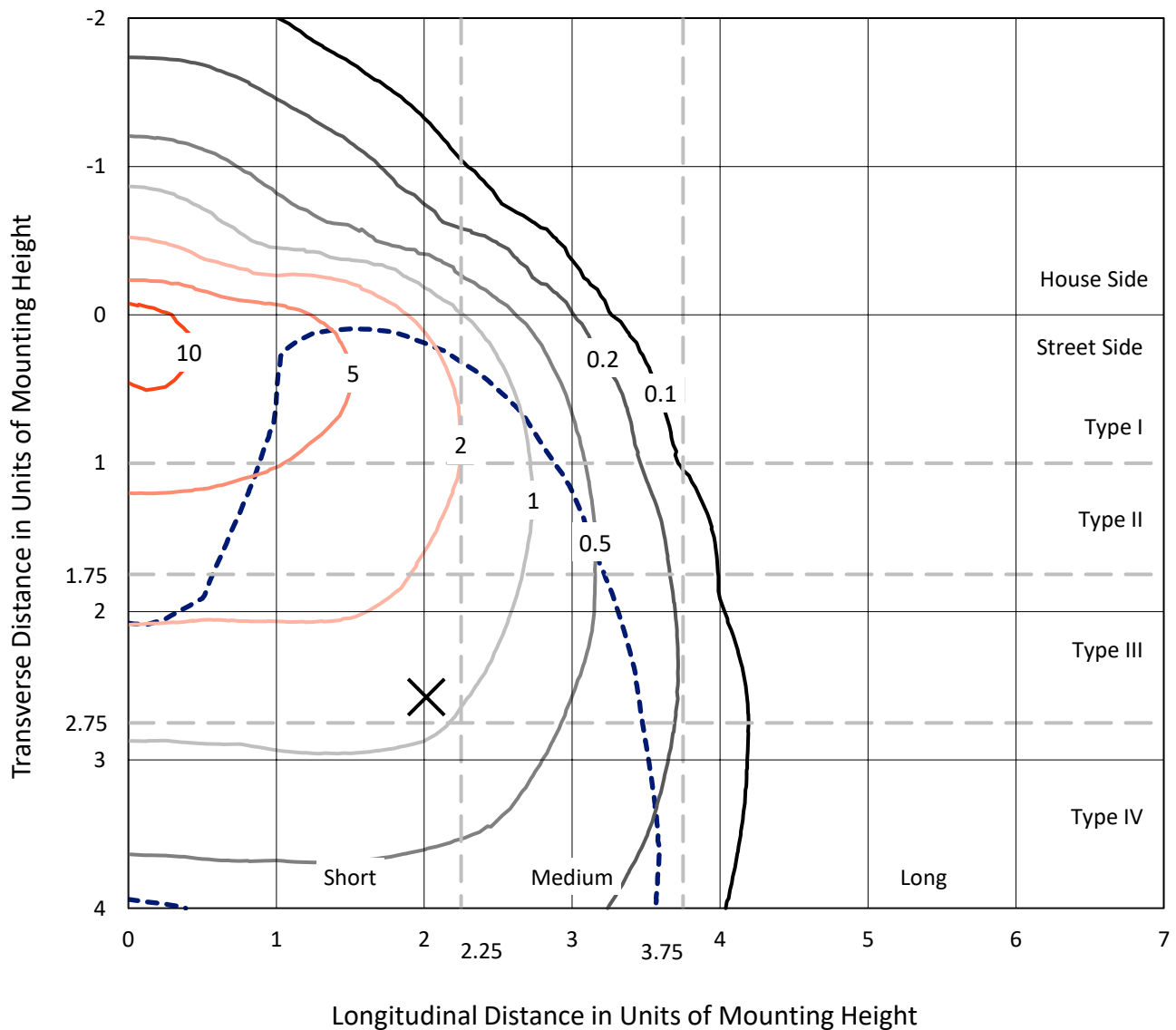


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

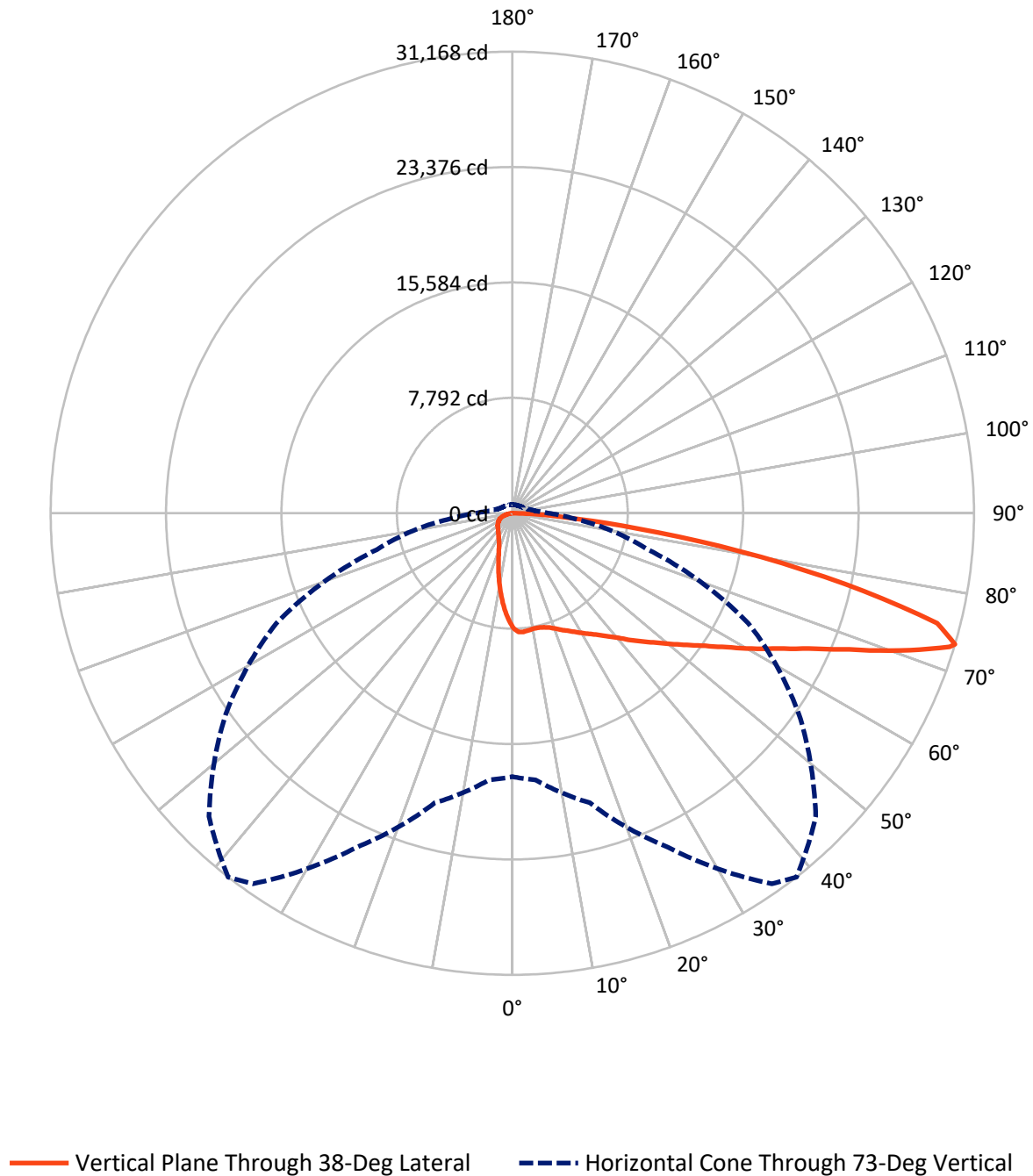


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5936.1	0.0	5936.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38221.9	0.0	38221.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	44158.0	0.0	44158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.2	1.5
10°-20°	1736.5	3.9
20°-30°	2704.1	6.1
30°-40°	3966.2	9.0
40°-50°	5883.4	13.3
50°-60°	8335.7	18.9
60°-70°	10574.0	23.9
70°-80°	8802.1	19.9
80°-90°	1478.9	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°	44158.0	100.0
0°-180°	44158.0	100.0

Coefficient of Utilization



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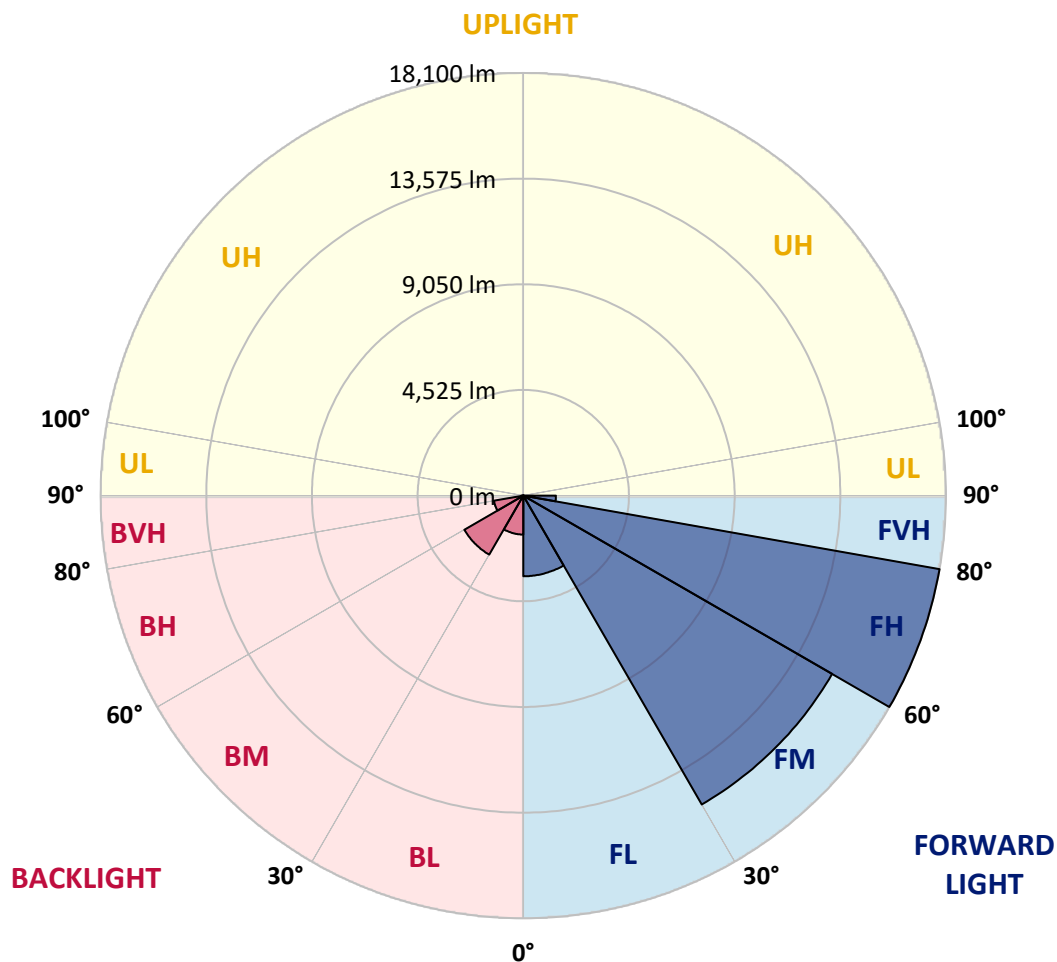
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3452.0	7.8			
FM	(30°-60°)	15271.0	34.6			
FH	(60°-80°)	18100.2	41.0			G5
FVH	(80°-90°)	1398.7	3.2			G5
BL	(0°-30°)	1665.7	3.8	B3/2500		
BM	(30°-60°)	2914.3	6.6	B3/5000		
BH	(60°-80°)	1275.9	2.9	B3/2500		G3/2500
BVH	(80°-90°)	80.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8
2.5°	8069.5	8109.4	8089.5	8062.0	8044.6	8027.1	8002.2	7929.9	7872.5	7810.2	7712.9
5°	8129.4	8154.3	8136.9	8101.9	8062.0	8044.6	7997.2	7902.4	7810.2	7705.4	7560.8
7.5°	8094.5	8104.4	8084.5	8042.1	8007.2	7974.8	7919.9	7815.2	7703.0	7575.8	7386.3
10°	7969.8	8007.2	8007.2	7972.3	7937.4	7919.9	7865.0	7765.3	7663.1	7518.4	7294.0
12.5°	7867.5	7907.4	7939.9	7929.9	7927.4	7927.4	7885.0	7810.2	7690.5	7553.3	7286.5
15°	7797.7	7845.1	7914.9	7954.8	7979.7	7987.2	7969.8	7904.9	7782.7	7623.2	7316.4
17.5°	7782.7	7840.1	7967.3	8054.6	8119.4	8116.9	8111.9	8022.1	7887.5	7722.9	7353.8
20°	7850.1	7924.9	8101.9	8239.1	8333.9	8316.4	8289.0	8171.8	8014.7	7830.1	7388.7
22.5°	8052.1	8129.4	8323.9	8473.5	8565.8	8565.8	8483.5	8328.9	8161.8	7954.8	7436.1
25°	8341.3	8426.1	8633.1	8785.2	8827.6	8795.2	8712.9	8525.9	8333.9	8134.4	7535.9
27.5°	8695.4	8797.7	8989.7	9116.9	9104.4	9079.5	8994.7	8755.3	8563.3	8381.2	7705.4
30°	9136.8	9211.6	9411.1	9441.0	9396.2	9391.2	9271.5	9032.1	8852.5	8712.9	7947.3
32.5°	9553.3	9620.6	9780.2	9792.6	9712.9	9722.8	9610.6	9391.2	9288.9	9239.1	8353.8
35°	9994.6	10029.5	10166.7	10151.7	10099.4	10091.9	10047.0	9837.5	9870.0	9959.7	8929.8
37.5°	10363.7	10433.5	10510.8	10523.3	10520.8	10545.7	10575.7	10475.9	10662.9	10944.7	9685.4
40°	10702.8	10762.7	10877.4	10917.3	11014.5	11064.4	11166.7	11169.2	11600.6	12064.4	10615.6
42.5°	10932.3	11034.5	11249.0	11321.3	11558.2	11707.8	11859.9	12022.0	12647.9	13243.9	11712.8
45°	11131.7	11266.4	11623.0	11847.4	12169.1	12351.2	12672.8	13012.0	13912.2	14692.7	12827.4
47.5°	11433.5	11553.2	11962.1	12358.6	12844.9	13054.4	13535.6	14041.9	15218.9	16074.2	13894.7
50°	11852.4	11924.7	12341.2	12987.0	13608.0	13877.3	14513.2	15243.8	16615.3	17438.2	14832.4
52.5°	12388.6	12418.5	12750.1	13610.5	14428.4	14762.5	15605.4	16458.2	17837.2	18622.7	15575.5
55°	13022.0	12972.1	13231.4	14271.3	15366.0	15802.4	16707.6	17687.6	19211.2	19580.3	16116.6
57.5°	13647.9	13570.6	13777.5	15074.2	16523.1	17049.2	18104.1	18954.4	20438.1	20475.5	16495.6
60°	14311.2	14253.8	14500.7	16016.9	17942.0	18565.4	19540.4	20268.6	21625.1	21099.0	16555.5
62.5°	14992.0	14899.7	15251.3	17076.7	19540.4	20106.5	21051.6	21665.0	22789.7	21330.9	15979.4
65°	15652.8	15610.4	16154.0	18336.0	21360.8	22004.2	22921.8	23338.3	23722.3	20981.8	14550.6
67.5°	16356.0	16440.8	17308.6	20016.7	23734.8	24542.7	25532.7	25141.2	23989.1	19328.4	12253.9
70°	17428.3	17483.1	18824.7	22218.6	26794.5	27769.5	28248.3	25782.1	22702.4	16188.9	9211.6
72.5°	17889.6	18131.5	20178.8	24530.2	30270.7	30866.7	29161.0	24353.2	18912.0	10997.1	4840.2
73°	17787.4	18076.6	20241.1	24881.9	30542.5	31168.4	28966.5	23617.6	17580.4	9471.0	4149.5
75°	16513.1	16869.7	19430.7	24587.6	30013.8	29639.8	25839.4	20128.9	11879.9	4306.6	1890.2
77.5°	13029.4	13131.7	15395.9	19854.6	23635.0	22941.8	19338.4	12580.6	4852.7	1600.9	1072.3
80°	6535.9	6912.5	8678.0	11373.6	15804.9	15578.0	12206.5	5949.9	2022.4	940.1	710.7
82.5°	3144.5	3411.3	4226.8	5545.9	8732.8	8525.9	6044.7	3251.7	1284.2	548.6	418.9
85°	2024.9	2224.4	2690.7	2645.8	3590.9	3428.8	2715.6	2461.3	760.6	286.8	291.8
87.5°	1336.6	1463.8	1755.5	1403.9	1306.7	1182.0	1199.5	1386.5	149.6	109.7	39.9
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°	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8	7757.8
2.5°	7673.0	7640.6	7533.4	7428.6	7328.9	7234.1	7171.8	7089.5	7034.6	7049.6	7072.1
5°	7481.0	7408.7	7219.2	7034.6	6860.1	6653.1	6486.0	6351.4	6249.1	6211.7	6204.3
7.5°	7279.0	7156.8	6885.0	6568.3	6271.6	6014.7	5718.0	5570.9	5398.8	5339.0	5319.0
10°	7156.8	6992.3	6610.7	6169.3	5723.0	5296.6	4974.9	4713.0	4476.1	4431.3	4408.8
12.5°	7121.9	6905.0	6391.3	5822.7	5229.2	4705.6	4229.3	3885.1	3655.7	3603.4	3526.1
15°	7102.0	6832.7	6186.8	5473.6	4720.5	4082.1	3580.9	3179.4	2970.0	2830.3	2832.8
17.5°	7084.5	6750.4	5957.4	5092.1	4281.6	3546.0	2992.4	2630.8	2438.8	2364.0	2356.5
20°	7059.6	6653.1	5693.1	4690.6	3780.4	3057.2	2556.0	2286.7	2157.0	2094.7	2092.2
22.5°	7049.6	6558.4	5433.7	4281.6	3336.5	2680.7	2266.7	2077.2	1994.9	1952.5	1952.5
25°	7074.5	6491.0	5161.9	3892.6	2942.5	2359.0	2067.3	1937.6	1890.2	1867.8	1860.3
27.5°	7151.9	6461.1	4892.6	3503.6	2581.0	2139.6	1932.6	1842.8	1807.9	1790.5	1792.9
30°	7299.0	6458.6	4628.3	3119.6	2311.6	1972.5	1825.4	1763.0	1735.6	1725.6	1723.1
32.5°	7535.9	6513.5	4368.9	2802.9	2084.7	1832.8	1725.6	1680.7	1668.3	1660.8	1658.3
35°	7937.4	6668.1	4112.1	2513.6	1910.2	1708.2	1630.9	1608.4	1591.0	1598.4	1600.9
37.5°	8478.5	6934.9	3867.7	2286.7	1778.0	1615.9	1551.1	1531.1	1521.1	1528.6	1536.1
40°	9204.1	7318.9	3663.2	2104.7	1683.2	1538.6	1481.2	1463.8	1453.8	1466.3	1468.8
42.5°	10004.6	7762.8	3493.6	1962.5	1605.9	1473.8	1418.9	1398.9	1391.5	1398.9	1401.4
45°	10827.5	8279.0	3406.4	1860.3	1541.1	1426.4	1369.0	1346.6	1329.1	1324.1	1331.6
47.5°	11638.0	8727.9	3403.9	1797.9	1488.7	1384.0	1321.6	1296.7	1274.3	1261.8	1259.3
50°	12298.8	9084.4	3463.7	1770.5	1443.8	1336.6	1274.3	1249.3	1219.4	1194.5	1199.5
52.5°	12797.5	9316.4	3491.1	1758.0	1418.9	1286.7	1224.4	1201.9	1167.0	1134.6	1134.6
55°	13119.2	9371.2	3423.8	1745.6	1398.9	1234.4	1167.0	1147.1	1112.2	1079.8	1079.8
57.5°	13228.9	9201.6	3181.9	1715.6	1379.0	1189.5	1109.7	1092.2	1064.8	1032.4	1027.4
60°	12974.6	8628.1	2758.0	1625.9	1339.1	1142.1	1047.3	1039.9	1029.9	1002.5	1000.0
62.5°	11994.6	7411.2	2296.7	1508.7	1271.8	1092.2	990.0	1002.5	1009.9	995.0	992.5
65°	10363.7	6017.2	1962.5	1346.6	1182.0	1022.4	927.6	960.1	980.0	980.0	975.0
67.5°	8406.2	4620.8	1653.3	1206.9	1069.8	927.6	857.8	882.8	897.7	892.7	905.2
70°	5974.8	3129.6	1346.6	1047.3	927.6	820.4	768.1	768.1	758.1	753.1	753.1
72.5°	2897.6	1788.0	1092.2	875.3	790.5	700.7	658.3	640.9	620.9	618.4	606.0
73°	2421.4	1603.4	1042.4	842.9	758.1	683.3	635.9	608.5	596.0	586.0	583.5
75°	1473.8	1216.9	870.3	710.7	645.9	588.5	546.1	521.2	508.7	501.2	498.7
77.5°	970.0	907.7	675.8	543.6	493.7	458.8	441.4	416.4	409.0	399.0	399.0
80°	723.2	693.2	483.8	384.0	354.1	324.2	319.2	314.2	294.3	281.8	276.8
82.5°	466.3	493.7	329.2	256.8	224.4	199.5	202.0	209.5	189.5	172.1	167.1
85°	331.7	356.6	199.5	117.2	94.8	82.3	92.3	82.3	84.8	67.3	54.9
87.5°	54.9	94.8	34.9	15.0	7.5	5.0	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)