

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: P457884

Luminaire Tested: **GALN-SA9B-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457884  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46564 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

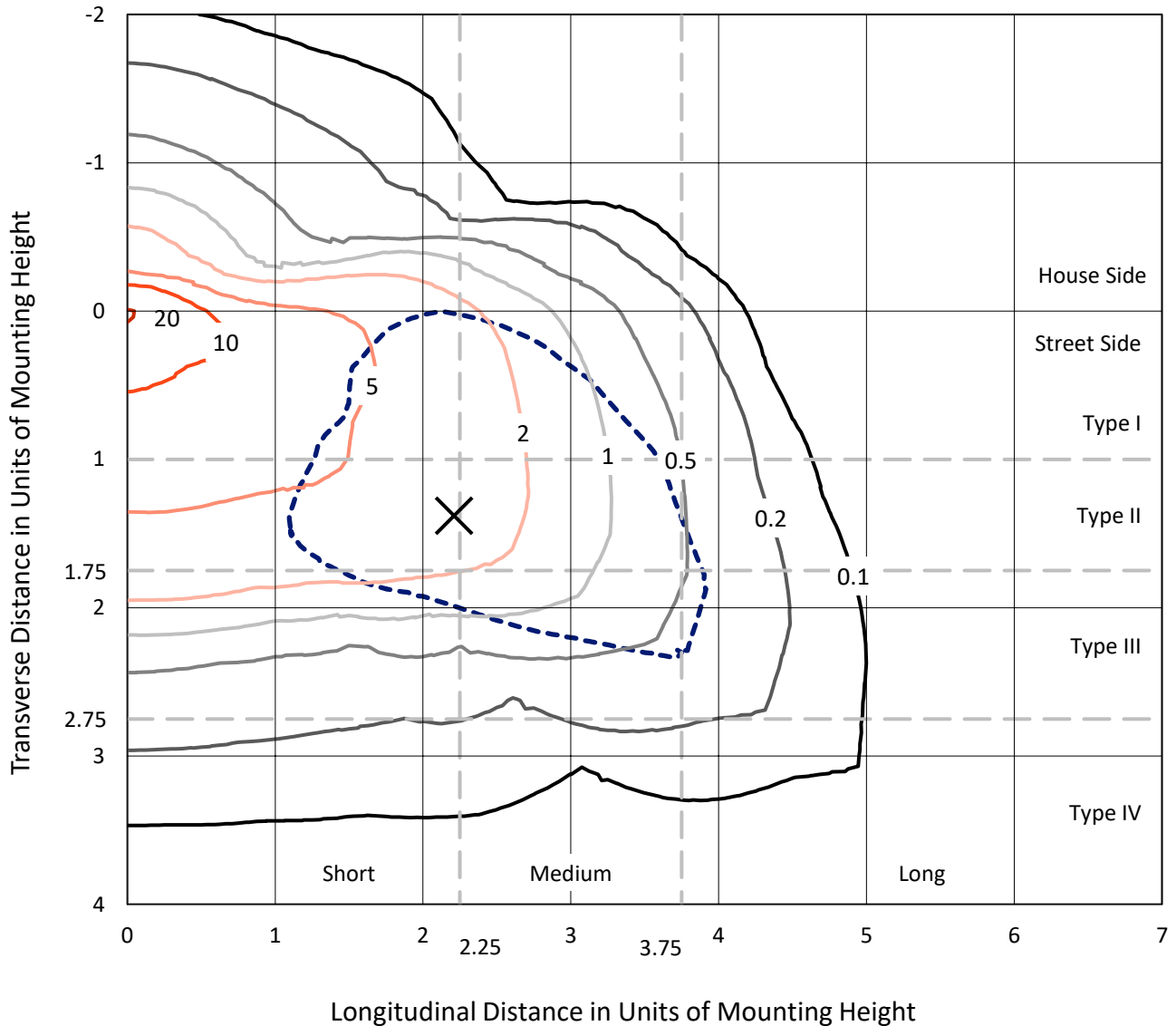
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

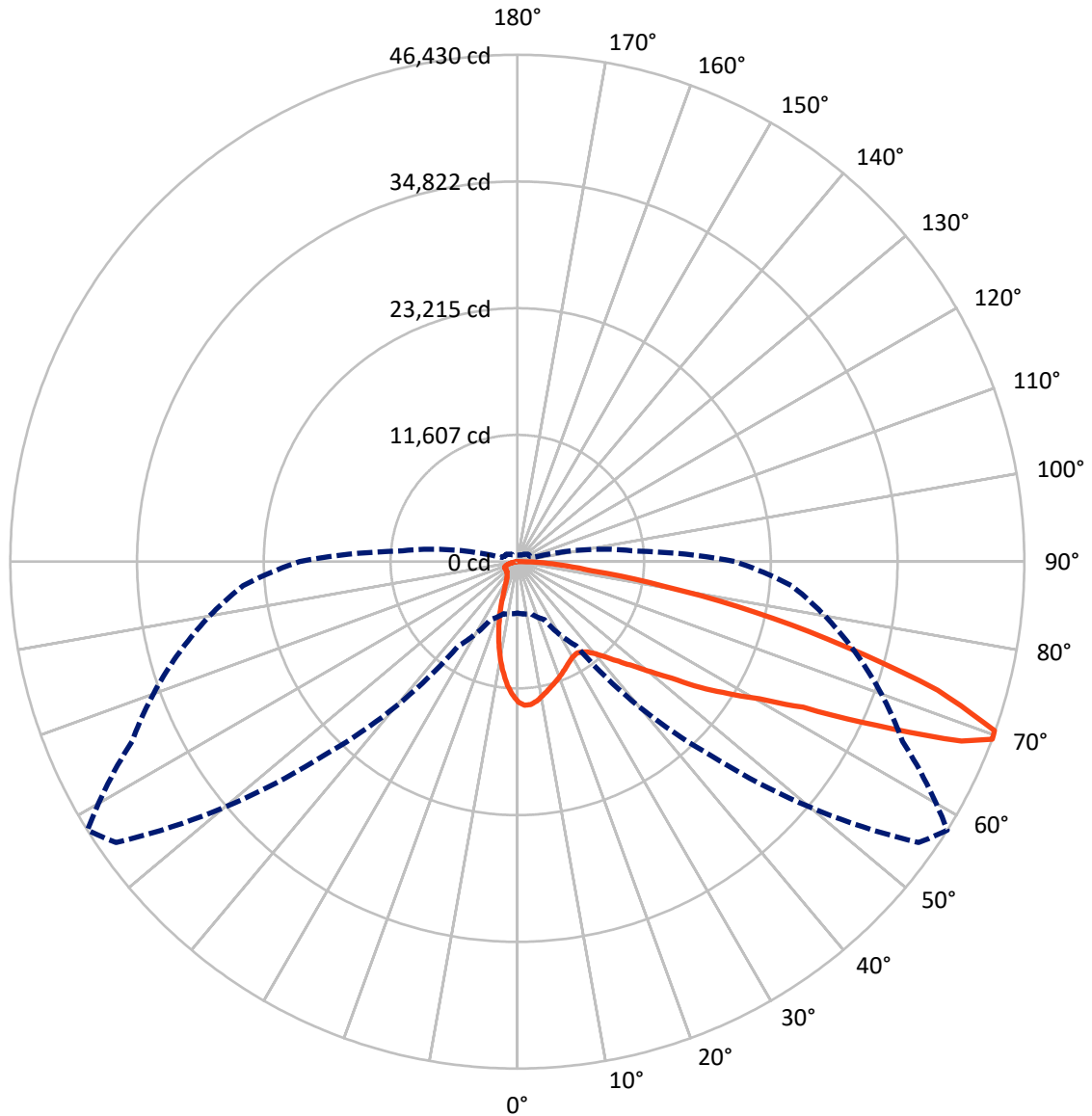
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6824.0	0.0	6824.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	39740.0	0.0	39740.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	46564.0	0.0	46564.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1092.8	2.3
10°-20°	2399.5	5.2
20°-30°	3100.2	6.7
30°-40°	4026.6	8.6
40°-50°	5854.1	12.6
50°-60°	9341.2	20.1
60°-70°	12478.7	26.8
70°-80°	7193.5	15.4
80°-90°	1077.4	2.3
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°	46564.0	100.0
0°-180°	46564.0	100.0



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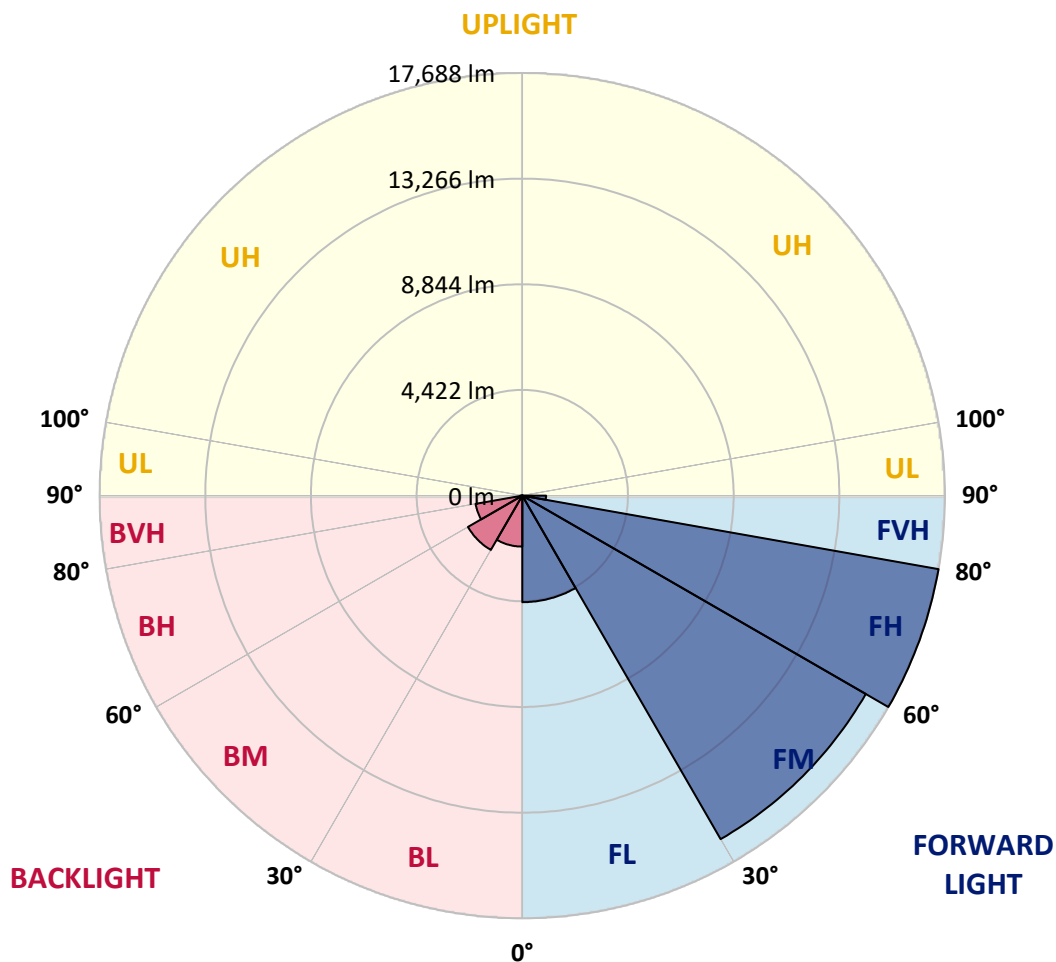
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4459.6	9.6			
FM (30°-60°)	16597.6	35.6			
FH (60°-80°)	17687.9	38.0			G5
FVH (80°-90°)	994.9	2.1			G5
BL (0°-30°)	2132.9	4.6	B3/2500		
BM (30°-60°)	2624.3	5.6	B3/5000		
BH (60°-80°)	1984.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	82.5	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6
2.5°	13345.4	13381.7	13371.4	13358.4	13337.6	13280.5	13187.0	13171.4	13111.7	12984.4	12826.0
5°	13140.2	13171.4	13174.0	13192.2	13218.1	13207.8	13140.2	13132.4	13044.2	12872.8	12607.9
7.5°	12436.5	12478.0	12568.9	12670.2	12761.1	12846.8	12867.6	12880.5	12826.0	12628.7	12275.5
10°	11644.4	11686.0	11727.5	11878.2	12101.5	12314.4	12491.0	12514.4	12527.4	12345.6	11914.5
12.5°	10766.7	10852.4	10940.7	11164.0	11462.6	11797.6	12109.3	12158.6	12246.9	12109.3	11602.9
15°	10021.4	10109.7	10236.9	10436.9	10797.8	11280.9	11719.7	11800.2	11974.2	11904.1	11312.0
17.5°	9504.6	9535.8	9624.1	9852.6	10242.1	10751.1	11338.0	11499.0	11776.9	11758.7	11062.7
20°	9096.9	9135.8	9190.4	9330.6	9735.7	10273.3	10982.2	11190.0	11566.5	11628.8	10816.0
22.5°	8925.5	8954.1	8946.3	9021.6	9296.8	9837.0	10621.3	10868.0	11379.5	11540.6	10587.5
25°	8935.9	8961.8	8922.9	8904.7	9068.3	9452.7	10244.7	10558.9	11228.9	11480.8	10379.7
27.5°	9109.9	9128.0	9055.3	8982.6	8995.6	9213.7	9933.1	10281.1	11101.7	11506.8	10205.8
30°	9343.6	9377.4	9330.6	9242.3	9146.2	9156.6	9733.1	10075.9	11042.0	11597.7	10122.7
32.5°	9644.8	9676.0	9655.2	9585.1	9460.5	9322.8	9683.8	10000.6	11047.1	11782.1	10104.5
35°	9961.6	10024.0	10057.7	10052.5	9951.3	9712.3	9878.5	10140.8	11171.8	12091.1	10211.0
37.5°	10320.0	10372.0	10517.4	10610.9	10517.4	10239.5	10317.4	10499.2	11447.1	12537.8	10444.7
40°	10668.0	10745.9	10958.9	11249.7	11213.3	10969.2	10987.4	11106.9	11932.7	13202.6	10901.7
42.5°	11031.6	11125.1	11496.4	11927.5	12013.2	11823.6	11873.0	11979.4	12623.5	14124.5	11686.0
45°	11499.0	11610.7	12067.7	12605.3	12942.9	12826.0	12966.2	13018.2	13547.9	15324.2	12719.5
47.5°	12101.5	12231.3	12794.9	13464.8	13942.7	14049.1	14293.3	14262.1	14693.2	16744.7	14059.5
50°	13116.9	13189.6	13721.9	14404.9	15061.9	15542.4	15807.2	15856.6	16113.7	18126.3	15557.9
52.5°	14324.4	14389.3	14773.7	15371.0	16194.2	17212.2	17866.6	17705.6	17767.9	19809.0	17310.8
55°	15682.6	15791.7	16035.8	16433.1	17500.4	18998.8	20312.8	20351.8	19661.0	21419.1	18991.0
57.5°	16734.3	16918.7	17336.8	17902.9	19255.9	20985.4	22751.3	22777.3	21894.3	23138.2	20845.2
60°	16204.6	16422.7	17378.4	18757.3	21559.3	24452.3	25665.0	25517.0	24067.9	25096.3	23107.1
62.5°	13919.3	13958.3	15347.6	17503.0	22268.3	29090.3	30001.8	29376.0	26968.6	27578.9	25405.3
65°	9008.6	9263.1	10364.2	13384.3	19938.9	31663.8	37600.3	36153.8	31035.4	30396.5	27329.6
67.5°	5687.2	5622.3	6079.3	7642.6	13714.1	29396.7	44084.7	43856.2	36353.8	32175.4	26870.0
69°	4715.9	4788.7	4944.5	5858.6	9437.1	25098.9	44850.8	46429.7	38932.5	32035.2	25200.2
70°	4277.1	4310.8	4474.4	5193.8	7281.7	21021.8	43593.9	46359.6	39945.3	31448.3	23990.0
72.5°	3394.1	3391.5	3672.0	4321.2	5443.1	12000.2	35795.5	40249.1	38813.0	28716.4	19822.0
75°	2578.7	2620.3	2929.3	3656.4	5014.6	6557.1	24979.4	30996.4	30999.0	22681.2	12369.0
77.5°	1859.4	1885.3	2246.3	3069.5	4723.7	5315.8	16638.2	22231.9	20899.7	10392.7	3887.5
80°	1217.9	1233.5	1508.8	2430.7	4258.9	5014.6	9865.6	13607.7	9857.8	2757.9	1285.5
82.5°	667.4	745.3	921.9	1573.7	3417.5	4632.8	5996.2	6886.9	3698.0	1228.3	670.0
85°	335.0	355.8	519.4	919.3	2233.3	3833.0	4175.8	3949.9	1908.7	610.3	348.0
87.5°	98.7	124.7	215.5	355.8	906.3	1997.0	2324.2	2085.3	734.9	220.7	72.7
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°	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6	12867.6
2.5°	12761.1	12714.3	12506.6	12319.6	12148.2	11966.4	11813.2	11678.2	11691.2	11693.8	11556.1
5°	12470.2	12363.8	11969.0	11600.3	11288.7	10893.9	10556.3	10338.2	10229.1	10083.7	10135.6
7.5°	12075.5	11870.4	11322.4	10709.6	10135.6	9624.1	9068.3	8686.6	8442.5	8206.2	8237.3
10°	11667.8	11338.0	10540.8	9730.5	8987.8	8169.8	7460.8	6853.2	6401.3	6232.5	6120.9
12.5°	11249.7	10816.0	9803.2	8725.5	7699.8	6720.7	5715.7	5063.9	4565.3	4300.4	4334.2
15°	10868.0	10340.8	9034.6	7720.5	6388.3	5222.3	4219.9	3599.3	3251.3	3178.6	3220.1
17.5°	10514.8	9824.0	8315.2	6744.1	5188.6	3916.1	3170.8	2820.2	2680.0	2641.0	2638.4
20°	10151.2	9385.1	7507.6	5700.2	4043.3	3035.8	2602.1	2438.5	2412.5	2428.1	2430.7
22.5°	9782.5	8842.4	6676.6	4664.0	3220.1	2482.6	2274.9	2230.7	2251.5	2287.9	2293.0
25°	9442.3	8364.6	5876.7	3755.1	2570.9	2181.4	2080.1	2080.1	2126.8	2181.4	2184.0
27.5°	9161.8	7902.3	5079.5	2981.2	2152.8	1963.2	1929.5	1947.7	2012.6	2054.1	2056.7
30°	8930.7	7471.2	4326.4	2389.1	1893.1	1789.3	1781.5	1812.6	1859.4	1898.3	1900.9
32.5°	8756.7	7092.1	3622.7	2007.4	1713.9	1656.8	1654.2	1677.6	1703.6	1713.9	1724.3
35°	8689.2	6777.9	2978.6	1765.9	1594.5	1558.1	1558.1	1555.5	1565.9	1571.1	1576.3
37.5°	8743.7	6536.4	2480.0	1610.1	1506.2	1480.2	1464.6	1449.1	1443.9	1443.9	1446.5
40°	8974.8	6409.1	2108.7	1508.8	1443.9	1404.9	1376.3	1358.2	1340.0	1345.2	1350.4
42.5°	9465.6	6432.5	1856.8	1441.3	1389.3	1334.8	1293.2	1272.5	1259.5	1275.1	1272.5
45°	10247.3	6666.2	1695.8	1394.5	1334.8	1264.7	1225.7	1205.0	1205.0	1228.3	1236.1
47.5°	11340.6	7112.9	1610.1	1358.2	1293.2	1210.1	1171.2	1155.6	1160.8	1199.8	1202.4
50°	12675.4	7889.3	1594.5	1340.0	1272.5	1171.2	1127.0	1111.5	1124.5	1166.0	1171.2
52.5°	14147.8	8889.1	1669.8	1342.6	1254.3	1147.8	1090.7	1067.3	1080.3	1114.1	1124.5
55°	15892.9	10140.8	1864.6	1353.0	1228.3	1134.8	1064.7	1012.8	1028.4	1051.7	1054.3
57.5°	17674.4	11719.7	2207.4	1355.6	1207.6	1111.5	1020.6	953.1	953.1	968.6	976.4
60°	19850.6	13438.9	2659.2	1358.2	1210.1	1077.7	960.8	885.5	875.2	882.9	885.5
62.5°	22011.2	14877.6	2734.5	1350.4	1236.1	1043.9	895.9	818.0	799.8	797.2	792.0
65°	22964.3	14610.1	2241.1	1314.0	1264.7	1023.2	844.0	753.1	721.9	711.5	711.5
67.5°	21411.3	12358.6	1685.4	1264.7	1246.5	1002.4	794.6	698.6	662.2	641.4	641.4
69°	19951.9	10992.6	1514.0	1230.9	1199.8	968.6	763.5	670.0	625.8	602.5	594.7
70°	18824.8	10052.5	1441.3	1202.4	1155.6	929.7	740.1	649.2	599.9	573.9	568.7
72.5°	15023.0	7886.7	1262.1	1093.3	984.2	781.7	657.0	584.3	537.6	509.0	501.2
75°	8658.0	4274.5	1046.5	950.5	792.0	607.7	555.7	509.0	472.6	446.7	438.9
77.5°	2664.4	1651.6	758.3	750.5	581.7	470.0	444.1	425.9	399.9	371.4	366.2
80°	1121.9	841.4	514.2	506.4	386.9	327.2	319.4	316.8	306.4	283.1	275.3
82.5°	615.5	475.2	358.4	311.6	233.7	189.6	197.4	200.0	192.2	168.8	153.2
85°	301.2	259.7	174.0	140.2	106.5	67.5	64.9	77.9	72.7	51.9	57.1
87.5°	59.7	72.7	46.7	20.8	10.4	0.0	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)