

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: P457360

Luminaire Tested: **GALN-SA8D-722-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-722-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45838 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

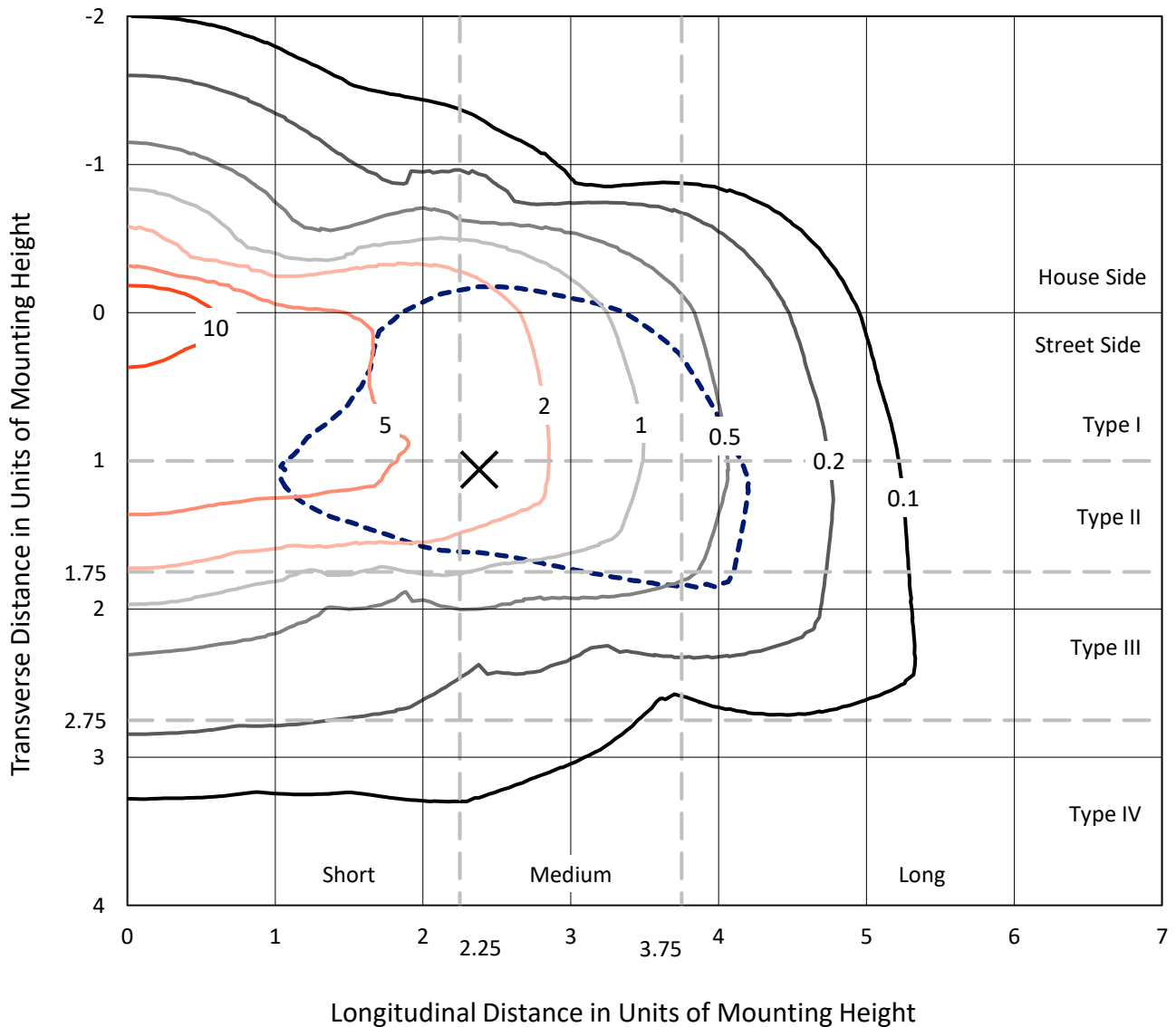
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

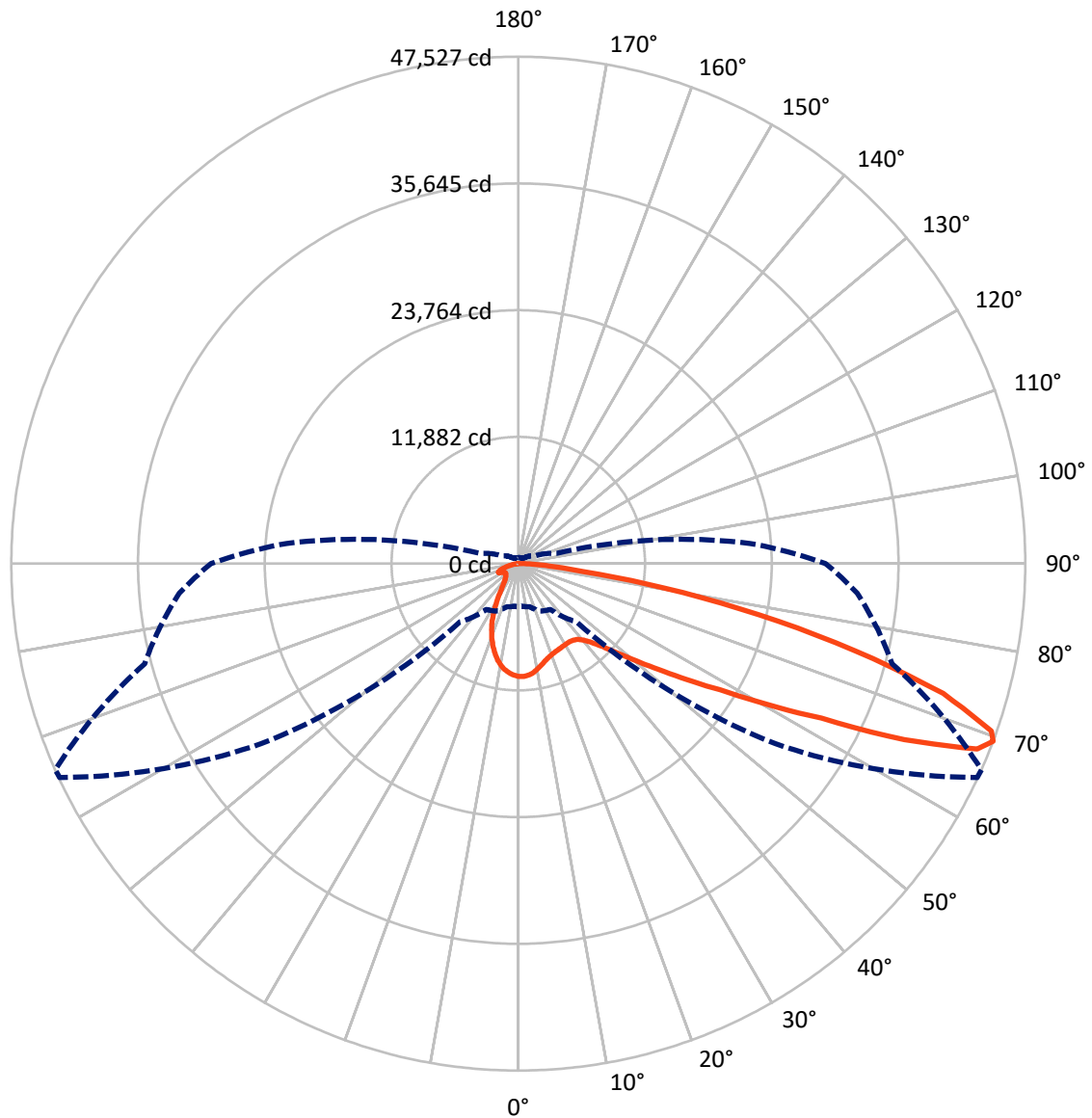
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8620.4	0.0	8620.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	37217.6	0.0	37217.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	45838.0	0.0	45838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	919.2	2.0
10°-20°	2180.3	4.8
20°-30°	2968.2	6.5
30°-40°	3988.6	8.7
40°-50°	5955.7	13.0
50°-60°	9473.5	20.7
60°-70°	11651.8	25.4
70°-80°	7581.2	16.5
80°-90°	1119.5	2.4
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°	45838.0	100.0
0°-180°	45838.0	100.0

**Coefficient of Utilization**



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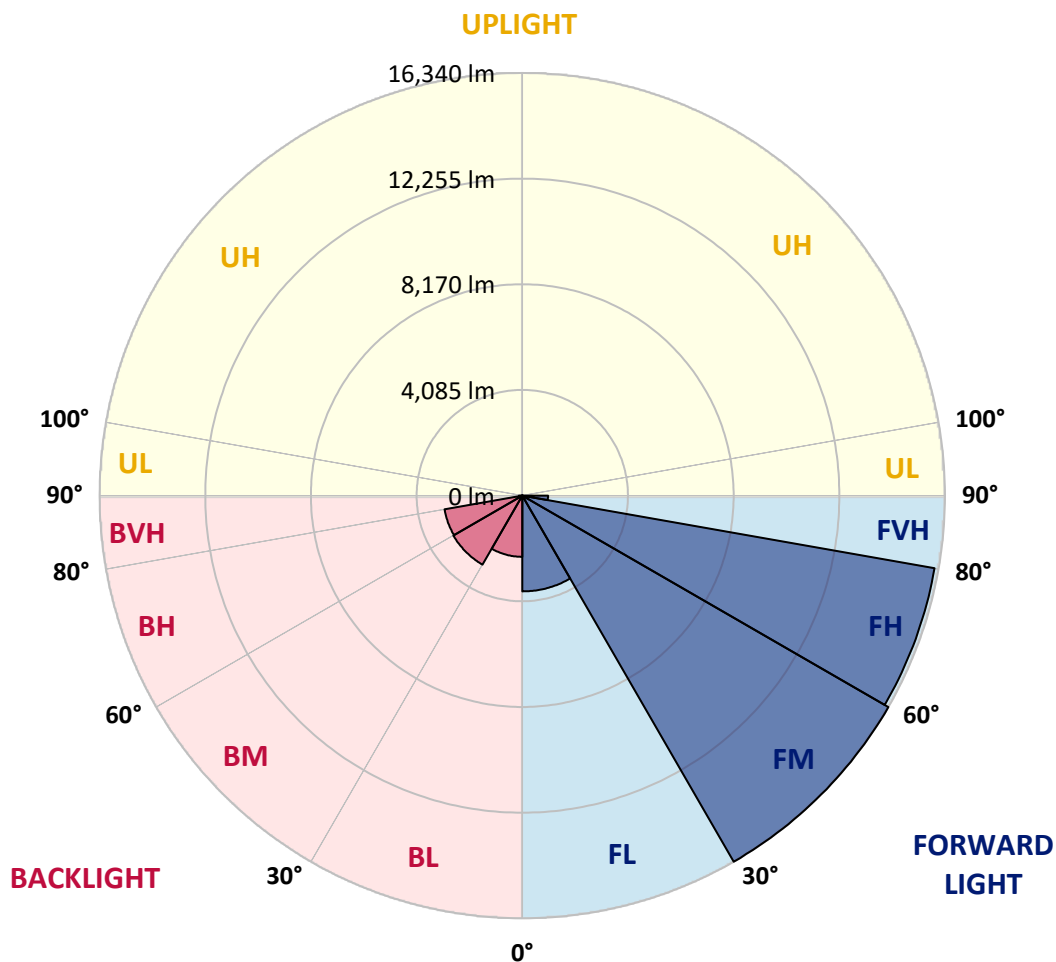
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3701.4	8.1			
FM	(30°-60°)	16339.9	35.6			
FH	(60°-80°)	16181.0	35.3			G5
FVH	(80°-90°)	995.3	2.2			G5
BL	(0°-30°)	2366.3	5.2	B3/2500		
BM	(30°-60°)	3077.9	6.7	B3/5000		
BH	(60°-80°)	3052.0	6.7	B4/5000		G4/5000
BVH	(80°-90°)	124.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3
2.5°	10214.7	10255.3	10301.0	10351.7	10448.2	10501.5	10539.6	10582.7	10587.8	10610.7	10592.9
5°	9460.7	9509.0	9577.5	9674.0	9818.7	10044.6	10278.1	10468.5	10491.3	10598.0	10628.4
7.5°	8831.2	8859.1	8915.0	9069.8	9275.4	9526.7	9866.9	10252.7	10308.6	10562.4	10651.3
10°	8318.4	8346.4	8412.4	8572.3	8775.4	9090.1	9463.3	9971.0	10016.7	10453.3	10656.3
12.5°	7935.1	7960.5	8031.6	8189.0	8422.5	8717.0	9128.2	9666.4	9732.4	10308.6	10608.1
15°	7643.2	7691.5	7749.8	7879.3	8125.5	8409.8	8808.4	9387.1	9440.4	10156.3	10575.1
17.5°	7518.8	7541.7	7582.3	7701.6	7881.8	8161.1	8562.1	9168.8	9232.3	10049.7	10567.5
20°	7523.9	7546.8	7554.4	7620.4	7749.8	7991.0	8387.0	8996.2	9072.4	9955.7	10580.2
22.5°	7696.5	7699.1	7671.1	7648.3	7699.1	7899.6	8262.6	8866.7	8955.6	9915.1	10590.3
25°	7963.1	8008.8	7968.1	7861.5	7767.6	7864.1	8214.4	8795.7	8879.4	9856.7	10577.7
27.5°	8394.6	8402.2	8369.2	8224.5	7980.8	7909.8	8194.1	8742.4	8813.4	9813.6	10514.2
30°	8973.4	8950.5	8920.1	8760.1	8376.8	8084.9	8237.2	8694.1	8767.7	9750.1	10438.0
32.5°	9559.7	9630.8	9602.9	9415.0	8917.5	8425.1	8376.8	8689.1	8750.0	9701.9	10354.3
35°	10181.7	10214.7	10346.7	10250.2	9740.0	8975.9	8638.3	8767.7	8816.0	9704.4	10295.9
37.5°	10669.0	10757.9	11067.6	11151.3	10671.6	9704.4	9062.2	8991.1	9011.4	9828.8	10318.7
40°	11258.0	11410.3	11808.8	12151.5	11836.7	10651.3	9783.1	9404.9	9430.3	10128.3	10468.5
42.5°	12004.3	12110.9	12646.5	13111.0	13060.2	11902.7	10656.3	10082.7	10095.4	10724.9	10887.3
45°	12877.5	13029.8	13631.4	14329.5	14448.8	13319.2	11917.9	11108.2	11100.6	11651.4	11669.2
47.5°	13994.4	14088.3	14684.8	15446.4	15928.7	15098.6	13448.6	12580.5	12499.2	13001.9	12857.2
50°	15022.4	15169.7	15621.5	16454.1	17654.8	17182.7	15461.6	14489.4	14299.0	14768.6	14524.9
52.5°	15454.0	15608.8	15989.6	17022.7	19134.7	19878.5	18017.8	16766.4	16449.0	16809.5	16720.7
55°	14705.1	14905.7	15261.1	16517.6	19784.6	22988.1	21465.0	19398.7	19167.7	19012.9	19038.3
57.5°	12692.2	12882.6	13362.3	14748.3	19007.8	25244.7	26387.0	22782.4	22287.4	21574.1	21696.0
60°	9661.3	9780.6	10029.4	11565.1	16705.4	25831.1	31976.6	27059.7	26744.9	24125.3	24211.6
62.5°	6861.4	6995.9	7168.5	7935.1	12230.2	24178.6	36352.9	33032.6	31908.1	26767.8	26684.0
65°	5571.9	5480.5	5688.6	6046.5	7176.2	18738.7	37337.8	41323.2	39774.7	30248.0	29085.4
67.5°	4581.9	4485.4	4691.0	5328.2	5457.6	10877.2	33789.1	46704.6	46394.9	34032.8	31524.8
69°	4056.4	4005.6	4185.9	4911.9	5239.3	7724.5	29435.7	47453.5	47527.1	36264.1	31900.5
70°	3655.3	3675.7	3850.8	4701.2	5140.3	6368.9	25158.4	46420.3	47044.8	37378.4	31494.3
72.5°	2690.7	2733.9	2977.6	3894.0	5046.4	5404.3	14971.7	40546.4	41650.6	37444.4	28811.2
75°	1881.0	1860.7	2076.4	2931.9	4767.2	5356.1	8793.1	31357.3	32608.7	32365.0	24209.0
77.5°	1231.1	1264.1	1436.8	2071.4	4010.7	5315.5	5731.8	22246.8	23059.1	21645.2	14319.3
80°	868.1	865.6	962.1	1413.9	2975.0	5107.3	4693.6	14022.3	13816.7	8506.3	4246.8
82.5°	497.5	533.1	644.8	995.1	1990.1	4495.6	4317.9	6706.5	6122.7	2424.2	1434.2
85°	276.7	289.4	383.3	601.6	1162.6	3386.3	3769.6	3051.2	2878.6	1012.8	616.8
87.5°	88.8	96.5	159.9	304.6	528.0	1599.2	2134.8	1408.8	1299.7	365.5	248.8
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°	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3
2.5°	10600.5	10631.0	10549.7	10471.0	10400.0	10301.0	10212.1	10138.5	10087.7	10080.1	10054.7
5°	10636.0	10638.6	10483.7	10275.6	10072.5	9849.1	9618.1	9453.1	9298.3	9212.0	9168.8
7.5°	10661.4	10638.6	10359.3	10021.7	9630.8	9224.7	8818.5	8493.6	8242.3	8143.3	8181.4
10°	10651.3	10580.2	10171.5	9630.8	9062.2	8455.5	7871.7	7414.8	6995.9	6780.2	6785.2
12.5°	10595.4	10478.7	9892.3	9191.7	8356.5	7544.2	6650.7	6033.9	5549.0	5262.2	5173.3
15°	10547.2	10344.1	9564.8	8595.1	7556.9	6396.9	5307.9	4546.3	4140.2	3914.3	3911.7
17.5°	10496.4	10214.7	9206.9	7963.1	6638.0	5145.4	4003.1	3421.8	3231.4	3254.3	3216.2
20°	10443.1	10062.4	8833.7	7259.9	5518.6	3838.1	2997.9	2761.8	2815.1	2919.2	2934.4
22.5°	10382.2	9899.9	8432.7	6485.7	4340.7	2888.7	2431.8	2396.3	2533.4	2695.8	2718.7
25°	10288.3	9696.8	7927.5	5675.9	3348.2	2327.7	2129.7	2155.1	2289.7	2426.7	2442.0
27.5°	10156.3	9445.5	7417.3	4665.6	2515.6	1997.7	1947.0	1980.0	2046.0	2129.7	2150.1
30°	9978.6	9161.2	6830.9	3792.4	2015.5	1832.7	1812.4	1830.2	1868.3	1903.8	1914.0
32.5°	9800.9	8887.1	6239.5	2904.0	1797.2	1723.6	1703.3	1703.3	1703.3	1708.4	1710.9
35°	9635.9	8628.1	5604.9	2261.7	1683.0	1637.3	1609.4	1578.9	1573.8	1556.1	1556.1
37.5°	9544.5	8392.1	4929.6	1893.7	1599.2	1566.2	1528.1	1477.4	1449.4	1452.0	1446.9
40°	9562.3	8237.2	4315.3	1685.5	1530.7	1495.1	1436.8	1378.4	1360.6	1360.6	1355.5
42.5°	9762.8	8186.4	3726.4	1576.4	1464.7	1424.1	1350.4	1297.1	1287.0	1284.4	1289.5
45°	10224.8	8310.8	3198.4	1505.3	1408.8	1347.9	1274.3	1226.1	1215.9	1215.9	1213.4
47.5°	11126.0	8714.4	2820.2	1459.6	1368.2	1289.5	1213.4	1165.1	1147.4	1142.3	1142.3
50°	12527.2	9590.2	2538.4	1419.0	1317.4	1236.2	1157.5	1101.7	1073.8	1071.2	1068.7
52.5°	14474.1	10955.9	2429.3	1388.5	1261.6	1180.4	1094.1	1040.8	1005.2	997.6	992.5
55°	16751.1	12862.2	2579.0	1365.7	1203.2	1116.9	1028.1	972.2	939.2	924.0	921.5
57.5°	19388.6	15151.9	3147.7	1335.2	1149.9	1048.4	962.1	906.2	870.7	852.9	847.8
60°	21756.9	17505.0	4140.2	1317.4	1104.2	974.8	885.9	835.1	802.1	784.4	781.8
62.5°	24358.8	19749.0	5325.6	1365.7	1083.9	903.7	814.8	769.1	741.2	723.5	723.5
65°	27138.4	21995.5	6110.0	1528.1	1114.4	847.8	738.7	700.6	675.2	662.5	660.0
67.5°	29011.8	22772.3	5033.7	1695.7	1190.5	786.9	665.1	634.6	619.4	606.7	606.7
69°	28808.7	21789.9	3713.7	1738.8	1213.4	756.5	624.5	601.6	581.3	576.2	571.1
70°	28166.5	20670.5	3112.1	1710.9	1195.6	728.5	599.1	571.1	553.4	548.3	545.8
72.5°	25087.3	17926.4	2317.6	1487.5	1017.9	632.1	530.5	505.1	489.9	482.3	482.3
75°	20843.1	14651.8	1809.9	1182.9	797.1	533.1	454.4	434.1	421.4	416.3	413.8
77.5°	11681.9	8181.4	1299.7	926.5	604.1	431.5	380.8	363.0	350.3	345.2	345.2
80°	3254.3	2337.9	764.1	611.8	411.2	327.5	302.1	289.4	271.6	258.9	266.5
82.5°	1226.1	1012.8	436.6	368.1	261.5	218.3	210.7	200.5	192.9	175.2	175.2
85°	596.5	492.5	279.2	195.5	144.7	114.2	109.2	104.1	99.0	86.3	88.8
87.5°	205.6	218.3	121.8	71.1	43.2	27.9	22.8	12.7	12.7	12.7	12.7
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)