

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: P652297

Luminaire Tested: **GALN-SA3B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12552.8 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

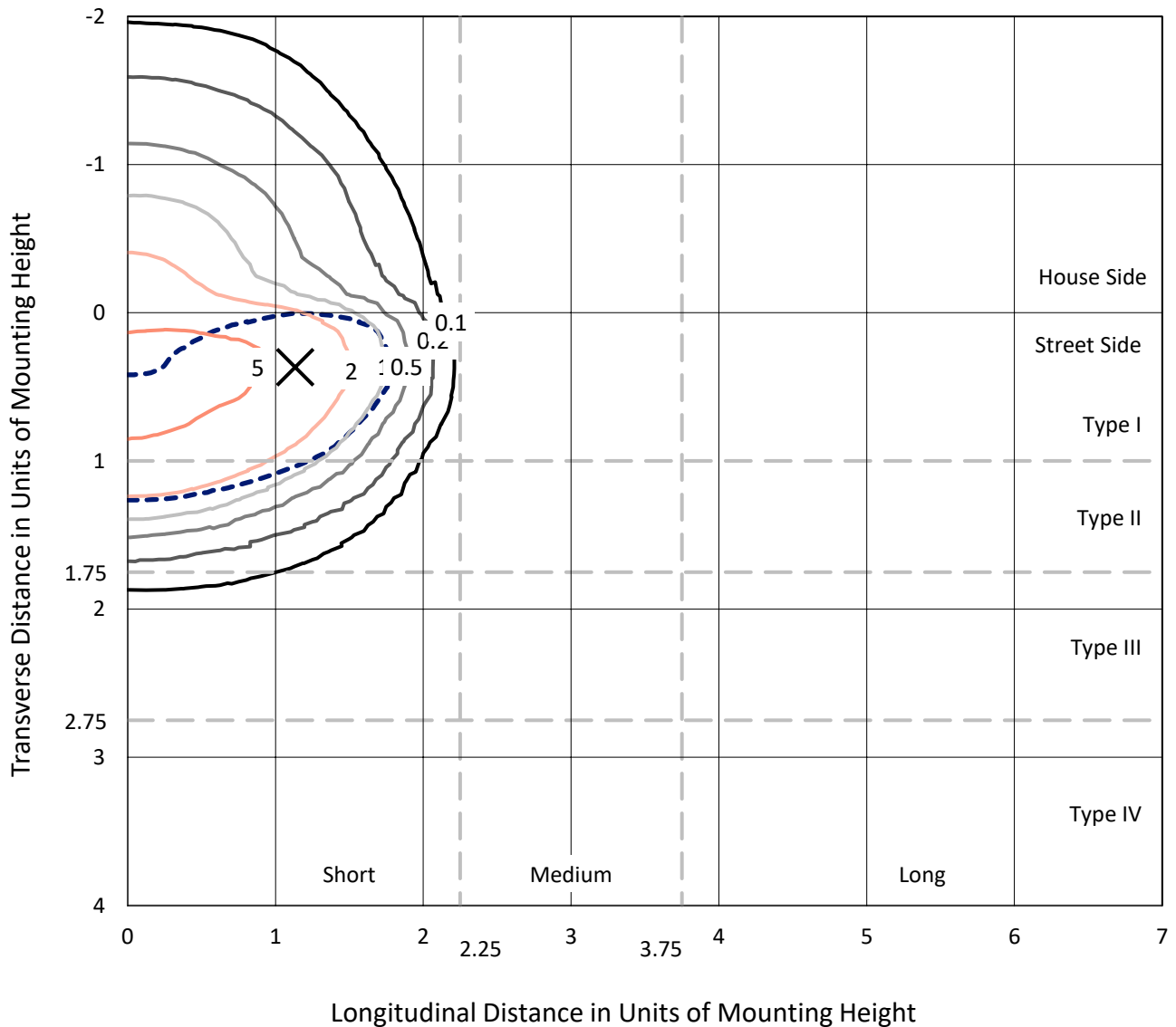
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

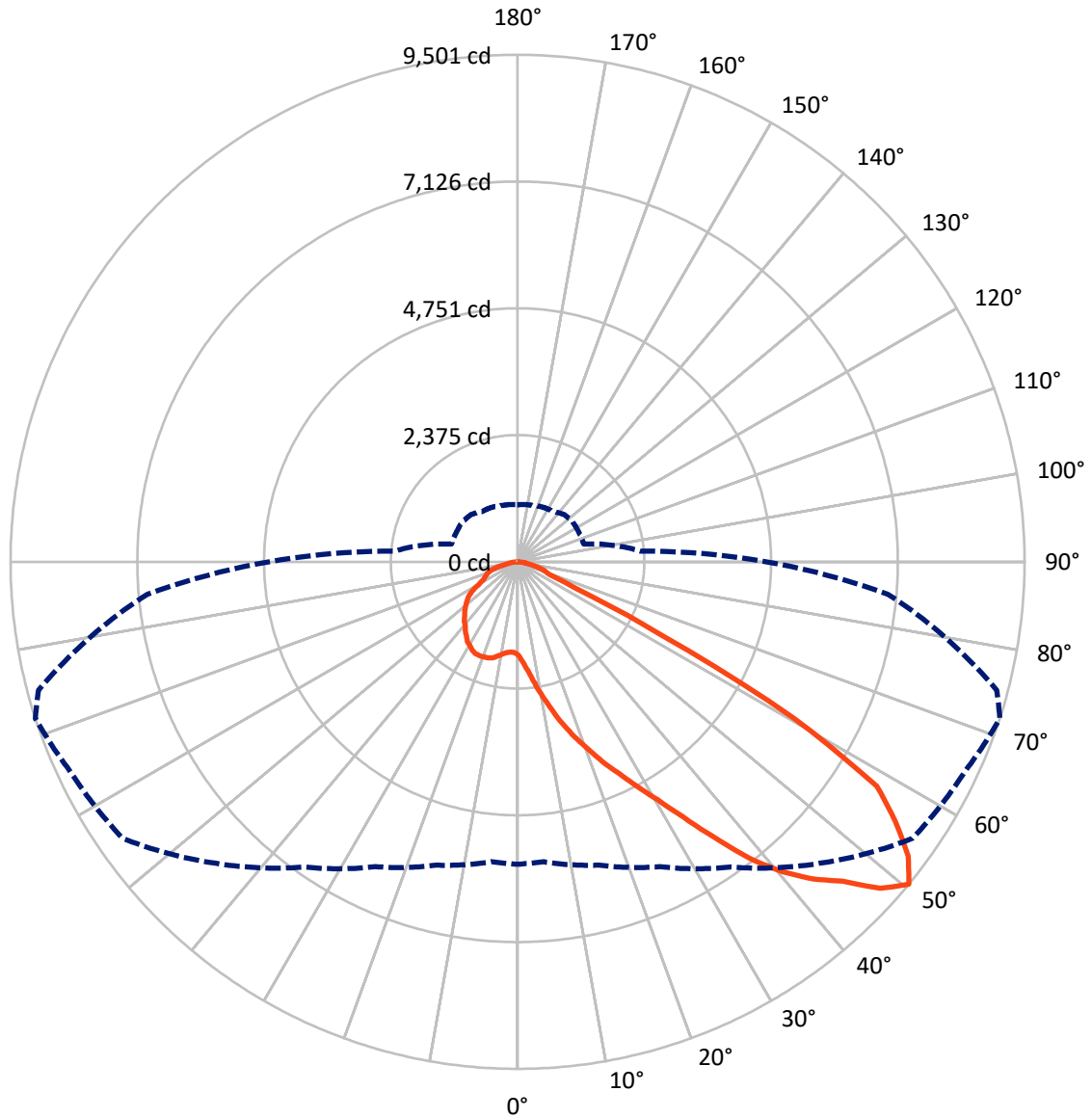
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2875.9	0.0	2875.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	9676.9	0.0	9676.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	12552.8	0.0	12552.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	1.6
10°-20°	768.4	6.1
20°-30°	1489.9	11.9
30°-40°	2468.2	19.7
40°-50°	3453.5	27.5
50°-60°	2913.5	23.2
60°-70°	888.0	7.1
70°-80°	311.6	2.5
80°-90°	54.2	0.4
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°	12552.8	100.0
0°-180°	12552.8	100.0

**Coefficient of Utilization**

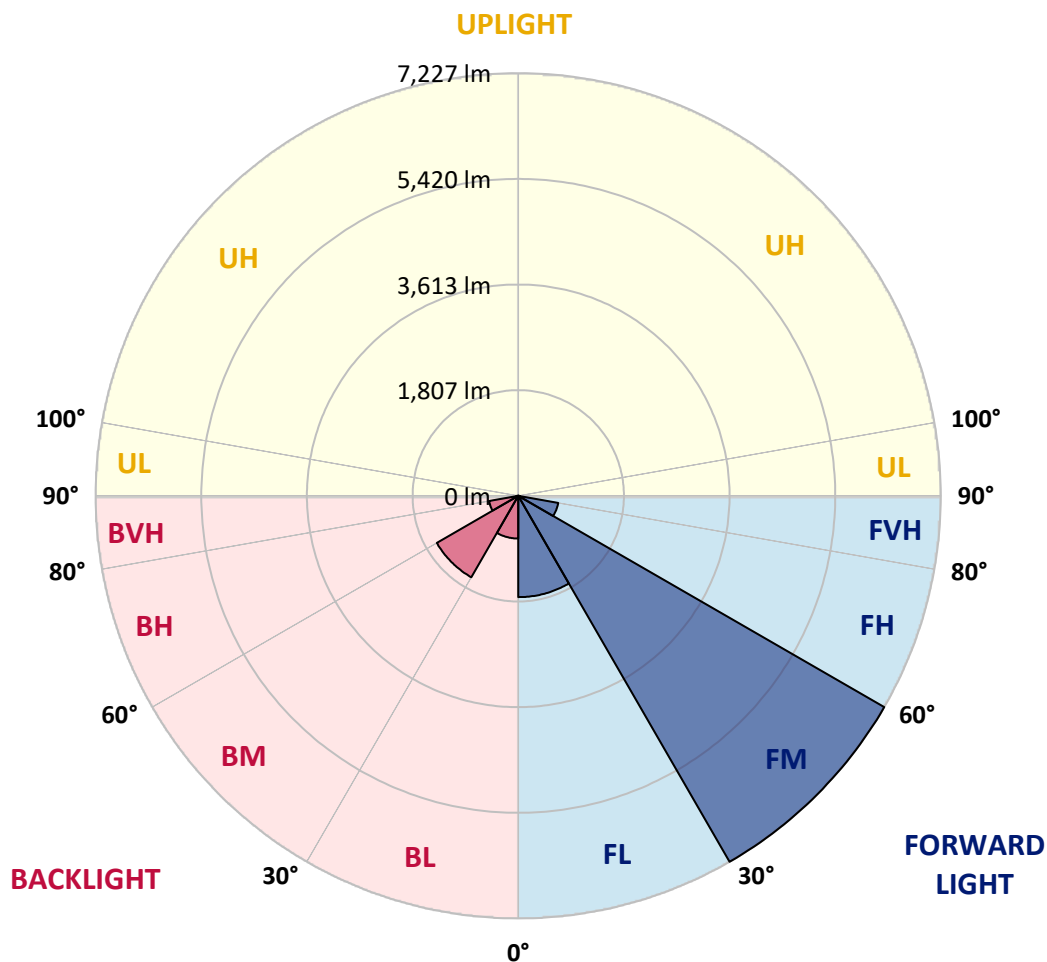


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.7	13.8			
FM (30°-60°)	7227.0	57.6			
FH (60°-80°)	692.9	5.5			G1/1800
FVH (80°-90°)	24.3	0.2			G1/100
BL (0°-30°)	731.1	5.8	B2/1000		
BM (30°-60°)	1608.3	12.8	B2/2500		
BH (60°-80°)	506.7	4.0	B2/1000		G2/1000
BVH (80°-90°)	29.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4
2.5°	2247.6	2233.6	2191.7	2177.7	2128.0	2037.9	2006.9	1915.2	1876.4	1840.6	1798.7
5°	2842.5	2777.3	2772.6	2693.4	2578.4	2511.6	2312.8	2179.3	2056.6	1994.4	1879.5
7.5°	3221.5	3223.0	3223.0	3157.9	3066.2	2896.9	2718.3	2477.5	2292.7	2201.0	2005.3
10°	3581.9	3550.8	3533.7	3527.5	3465.4	3300.8	3109.7	2811.5	2558.2	2451.1	2100.1
12.5°	3836.6	3810.2	3849.1	3828.8	3783.8	3676.6	3496.5	3156.3	2839.4	2695.0	2252.3
15°	3957.7	3976.4	4007.4	4063.4	4043.2	4002.8	3804.0	3510.4	3142.3	2979.2	2387.4
17.5°	4144.2	4092.9	4130.2	4200.1	4256.0	4237.4	4124.0	3766.8	3442.1	3241.7	2569.2
20°	4274.6	4245.1	4263.8	4344.5	4386.5	4492.1	4433.1	4102.2	3729.4	3518.2	2783.5
22.5°	4647.5	4604.0	4543.3	4555.8	4571.3	4645.9	4659.9	4470.3	4063.4	3839.8	2987.0
25°	5107.2	5066.9	4995.4	4922.4	4877.3	4863.3	4911.5	4759.3	4383.4	4151.9	3206.0
27.5°	5613.6	5545.2	5500.2	5349.5	5228.4	5209.7	5186.4	5104.1	4762.4	4512.3	3453.0
30°	6106.0	6051.6	5991.0	5750.3	5624.4	5604.3	5489.3	5512.6	5174.0	4896.0	3732.5
32.5°	6478.8	6483.4	6345.2	6163.4	6045.4	5938.2	5896.3	5963.1	5702.1	5478.4	4044.8
35°	6780.1	6794.1	6662.1	6497.4	6370.1	6444.6	6426.0	6457.0	6332.7	6059.4	4408.3
37.5°	7073.7	7003.8	6862.5	6783.3	6716.4	6839.2	6997.5	7023.9	7047.2	6725.7	4830.7
40°	7121.8	7128.1	7045.7	7101.7	7017.8	7202.6	7570.8	7536.5	7631.3	7350.2	5289.0
42.5°	7053.5	7067.5	7100.1	7179.3	7381.2	7603.4	8150.1	8010.4	8125.2	7875.2	5734.8
45°	6941.7	6884.2	6924.5	7225.9	7575.4	8069.3	8679.8	8571.1	8533.8	8324.0	6266.0
47.5°	6407.3	6466.4	6592.2	6963.4	7488.4	8150.1	9055.7	9030.8	9142.7	8995.1	6749.0
50°	5666.4	5643.1	5885.4	6303.3	6980.5	7991.7	9035.5	9260.8	9501.4	9296.4	6965.0
52.5°	4243.6	4367.8	4576.0	5094.8	6060.9	7128.1	8594.3	8970.3	9166.0	9122.5	6791.0
55°	2682.5	2719.8	2845.6	3462.3	4332.2	5720.7	7367.2	8238.7	8588.1	8751.3	6631.0
57.5°	1303.2	1233.3	1387.1	1882.6	2502.3	3847.5	5682.0	7176.2	7935.8	8230.9	6283.0
60°	680.4	706.8	767.3	944.4	1293.9	1997.5	3541.5	4782.6	5942.9	6396.5	4762.4
62.5°	563.8	573.1	613.5	702.1	860.5	1149.4	1808.1	2331.5	3030.5	3439.0	2708.9
65°	478.4	483.1	526.6	585.6	686.6	809.3	930.4	973.9	1178.9	1210.0	963.0
67.5°	399.2	403.8	450.4	506.4	571.6	604.3	635.3	632.2	655.5	646.1	644.6
70°	307.6	312.2	360.4	419.4	452.0	433.4	529.7	551.4	560.8	568.5	581.0
72.5°	222.1	231.4	268.7	310.7	293.6	337.1	436.5	469.1	481.6	486.2	501.7
75°	161.6	164.7	174.0	161.6	186.4	234.6	307.6	347.9	363.5	368.1	391.4
77.5°	71.5	73.0	74.6	93.2	119.6	146.0	183.3	215.9	237.7	243.9	250.1
80°	37.3	38.9	48.2	63.7	85.4	107.1	133.6	152.2	166.2	167.8	174.0
82.5°	23.3	24.9	34.1	45.1	60.6	79.2	97.9	113.4	124.3	125.8	127.4
85°	10.8	14.0	20.2	27.9	40.4	51.2	52.8	45.1	48.2	49.7	46.6
87.5°	3.1	4.6	6.2	4.6	6.2	6.2	7.7	9.3	9.3	9.3	10.8
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°	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4	1747.4
2.5°	1775.4	1761.4	1707.1	1686.9	1634.1	1643.4	1615.4	1613.9	1607.7	1606.1	1604.5
5°	1818.9	1775.4	1710.2	1660.5	1631.0	1627.8	1607.7	1607.7	1613.9	1618.5	1607.7
7.5°	1890.3	1840.6	1730.4	1683.8	1657.4	1652.7	1638.7	1627.8	1641.8	1637.2	1624.7
10°	1972.6	1885.7	1769.2	1728.8	1685.3	1674.4	1674.4	1679.1	1655.8	1663.6	1651.1
12.5°	2064.3	1947.8	1818.9	1772.3	1721.0	1714.8	1711.7	1677.5	1690.0	1683.8	1652.7
15°	2180.8	2019.2	1882.6	1803.4	1759.9	1732.0	1691.5	1685.3	1677.5	1662.0	1648.0
17.5°	2306.6	2096.9	1912.1	1812.7	1747.4	1727.2	1696.2	1663.6	1640.3	1643.4	1632.5
20°	2413.8	2168.4	1922.9	1822.0	1738.1	1699.3	1651.1	1631.0	1606.1	1604.5	1603.0
22.5°	2541.2	2264.7	1938.5	1797.1	1710.2	1669.8	1637.2	1601.4	1584.4	1562.6	1573.5
25°	2693.4	2302.0	1941.6	1783.2	1690.0	1618.5	1601.4	1562.6	1556.4	1525.3	1531.5
27.5°	2803.7	2322.2	1916.7	1739.7	1643.4	1589.0	1558.0	1530.0	1519.1	1495.8	1489.6
30°	2951.2	2353.2	1863.9	1685.3	1596.8	1536.2	1517.6	1511.4	1480.2	1455.4	1452.3
32.5°	3119.0	2373.5	1829.8	1629.4	1548.6	1502.0	1511.4	1481.8	1443.0	1421.3	1415.1
35°	3252.6	2381.2	1744.3	1565.7	1516.0	1486.5	1475.6	1469.4	1413.5	1393.3	1377.8
37.5°	3456.1	2364.1	1672.9	1520.7	1480.2	1469.4	1460.1	1418.2	1354.4	1325.0	1303.2
40°	3693.8	2359.4	1581.2	1456.9	1446.1	1458.5	1430.5	1365.4	1276.8	1244.2	1228.6
42.5°	3922.1	2392.1	1523.8	1422.8	1408.8	1413.5	1374.7	1276.8	1233.3	1214.7	1189.8
45°	4304.2	2460.4	1429.0	1370.0	1363.8	1360.7	1314.1	1211.5	1186.7	1163.4	1158.7
47.5°	4649.0	2415.4	1368.5	1315.7	1321.9	1304.7	1205.3	1172.8	1144.8	1121.5	1113.7
50°	4669.2	2308.2	1283.0	1273.7	1275.3	1245.8	1151.0	1129.2	1093.6	1078.0	1067.1
52.5°	4563.6	2132.7	1203.8	1206.9	1211.5	1163.4	1084.2	1068.7	1039.1	1017.4	1011.2
55°	4266.9	1859.3	1126.1	1138.5	1151.0	1059.3	1034.5	995.7	972.4	941.3	942.8
57.5°	3758.9	1497.4	1017.4	1037.6	1064.0	963.0	944.4	896.3	862.1	837.2	834.1
60°	2519.5	1065.5	854.3	862.1	921.1	880.7	879.2	831.0	784.4	762.7	750.3
62.5°	1486.5	813.9	737.8	730.1	728.5	751.8	790.6	773.6	713.0	671.0	683.5
65°	778.2	703.7	686.6	660.2	644.6	638.4	667.9	675.7	635.3	590.2	587.1
67.5°	654.0	654.0	639.9	630.7	608.9	582.5	563.8	539.0	532.8	520.3	504.9
70°	594.9	610.5	605.8	584.1	565.4	535.9	487.7	447.3	408.5	394.5	403.8
72.5°	518.8	534.4	534.4	523.4	498.6	453.6	407.0	360.4	327.7	302.9	299.8
75°	399.2	407.0	425.6	413.2	380.6	352.6	304.4	256.3	225.2	201.9	197.3
77.5°	254.7	267.2	267.2	265.6	242.3	215.9	184.9	150.7	127.4	110.3	105.6
80°	169.3	177.1	183.3	177.1	161.6	141.4	118.1	94.8	77.6	63.7	60.6
82.5°	124.3	133.6	138.3	132.0	116.5	101.0	83.8	66.8	49.7	38.9	35.7
85°	48.2	49.7	55.9	66.8	65.3	63.7	51.2	37.3	27.9	20.2	18.7
87.5°	12.4	10.8	12.4	12.4	10.8	9.3	9.3	9.3	9.3	4.6	6.2
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)