

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: P652406

Luminaire Tested: **GALN-SA5B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15849.5 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

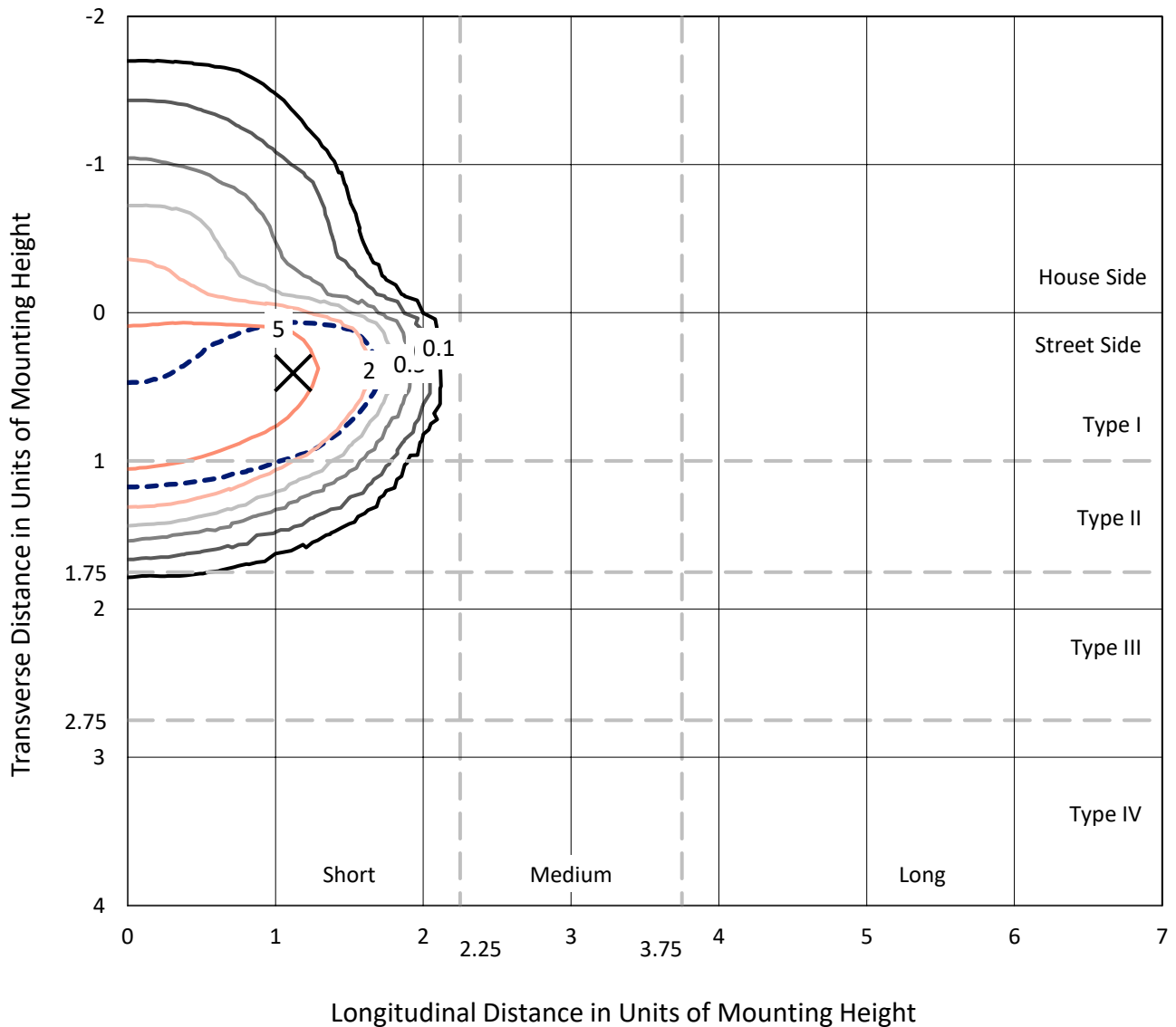
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

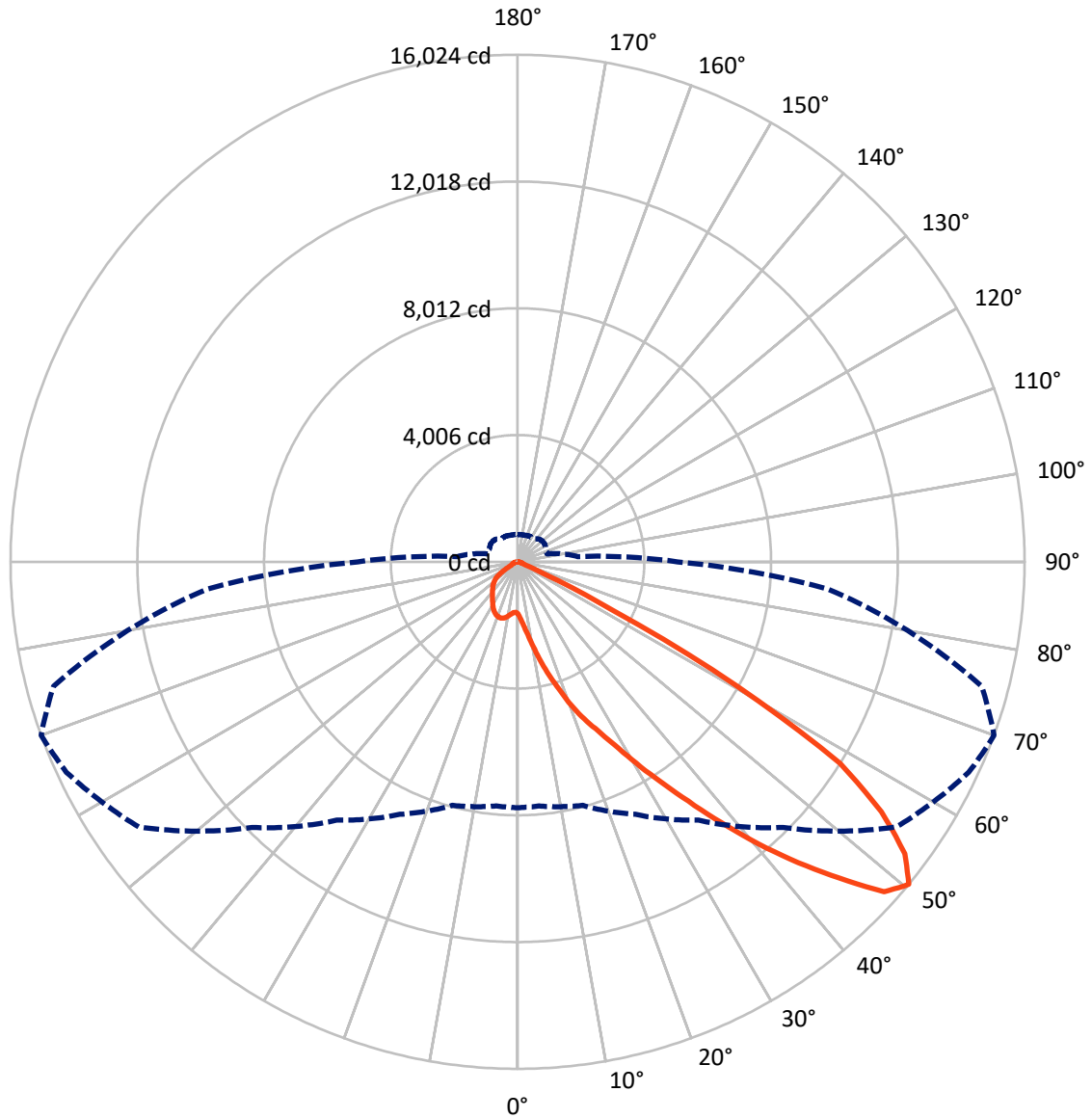
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2213.5	0.0	2213.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	13636.0	0.0	13636.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	15849.5	0.0	15849.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.5	1.3
10°-20°	923.4	5.8
20°-30°	1937.2	12.2
30°-40°	3339.1	21.1
40°-50°	4880.1	30.8
50°-60°	3800.8	24.0
60°-70°	644.0	4.1
70°-80°	88.5	0.6
80°-90°	22.9	0.1
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°	15849.5	100.0
0°-180°	15849.5	100.0

**Coefficient of Utilization**



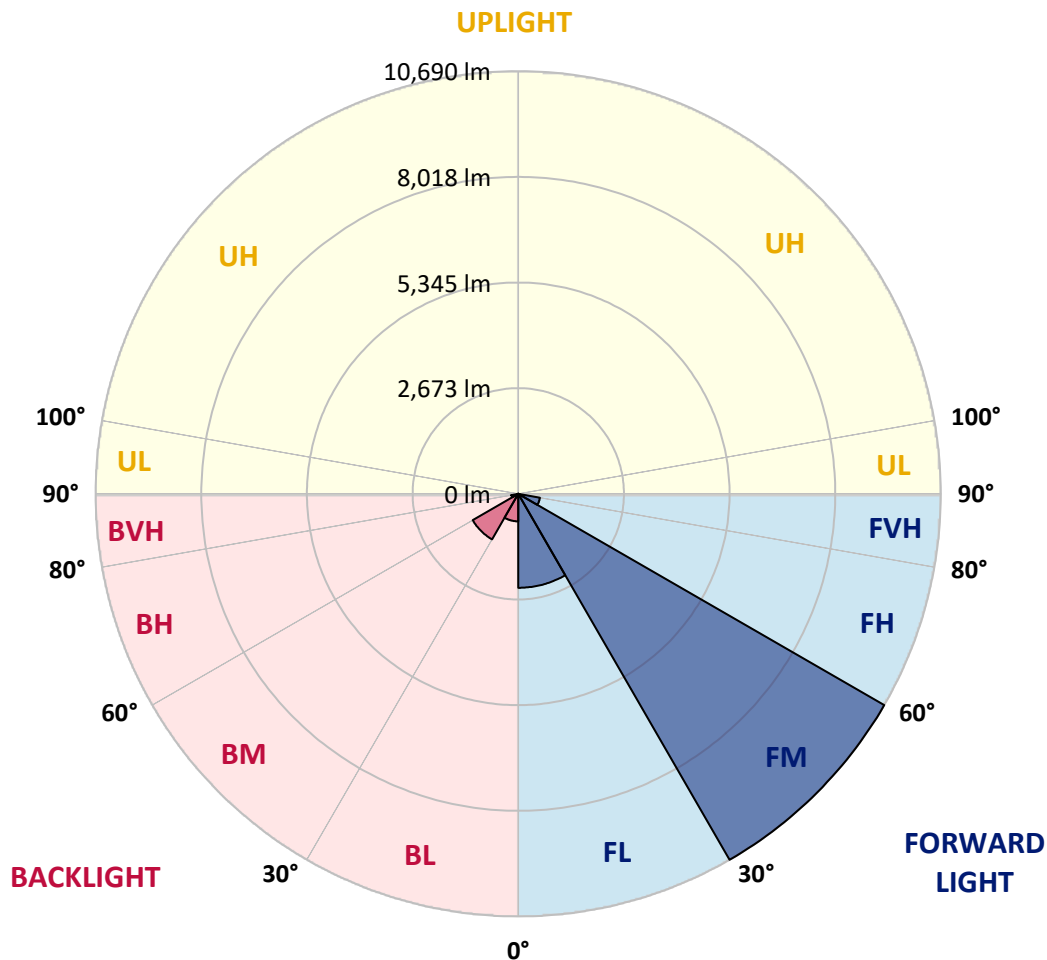
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2377.6	15.0			
FM (30°-60°)	10690.2	67.4			
FH (60°-80°)	557.6	3.5			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	696.5	4.4	B2/1000		
BM (30°-60°)	1329.8	8.4	B2/2500		
BH (60°-80°)	174.8	1.1	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7
2.5°	2149.8	2134.2	2100.3	2037.8	2011.8	1949.2	1912.7	1842.4	1798.1	1748.5	1693.8
5°	3028.0	2947.2	2897.7	2827.4	2621.5	2493.8	2282.7	2102.9	2019.6	1928.3	1803.3
7.5°	3934.9	3882.7	3814.9	3663.8	3523.1	3257.4	2895.1	2499.0	2329.7	2173.3	1925.7
10°	4685.4	4539.4	4531.6	4419.5	4265.8	3947.9	3512.7	3020.2	2717.9	2488.6	2100.3
12.5°	5209.2	5076.2	5136.2	5123.1	4979.8	4688.0	4185.0	3533.5	3218.3	2861.3	2280.1
15°	5686.0	5631.3	5613.0	5597.4	5540.1	5323.8	4873.0	4159.0	3702.9	3273.0	2483.4
17.5°	6152.4	6011.7	6079.5	6092.5	6087.3	5891.9	5469.7	4753.1	4216.3	3708.1	2697.1
20°	6566.8	6579.8	6488.6	6470.4	6454.8	6446.9	6035.2	5342.0	4846.9	4164.2	2975.9
22.5°	7098.4	7007.1	7087.9	7035.8	6934.2	6871.6	6556.4	5863.2	5394.2	4714.0	3260.0
25°	7726.4	7799.3	7609.1	7588.3	7476.2	7259.9	6975.9	6446.9	5920.6	5224.8	3567.4
27.5°	8500.3	8372.7	8323.1	8208.5	8005.2	7914.0	7580.4	7048.8	6556.4	5761.6	3864.5
30°	9164.8	9131.0	8883.4	8747.9	8570.7	8568.1	8101.6	7864.5	7385.0	6603.3	4273.6
32.5°	9706.8	9558.3	9467.1	9373.3	9230.0	9269.1	8875.6	8750.5	8268.4	7385.0	4755.7
35°	10069.0	9962.2	9907.5	9764.2	9722.5	9897.1	9732.9	9680.8	9284.7	8484.7	5321.2
37.5°	10183.8	10217.6	10207.1	10027.3	10116.0	10587.6	10798.7	10663.2	10454.7	9644.3	5933.6
40°	10285.3	10308.8	10256.7	10467.8	10720.6	11257.4	12020.8	11796.7	11718.6	10819.5	6785.7
42.5°	10342.7	10324.5	10324.5	10689.3	11072.4	12151.1	13201.3	13052.7	12992.9	12070.4	7770.7
45°	10095.1	9917.9	10108.1	10603.2	11374.6	12591.5	14144.6	14350.5	14264.5	13558.3	8922.5
47.5°	9170.0	9279.5	9386.3	10048.2	11007.2	12456.1	14723.1	15424.1	15583.1	14809.2	9678.1
50°	7770.7	7747.2	7968.7	8802.6	9967.4	11872.3	14611.1	15734.2	16023.5	15184.3	9837.2
52.5°	5652.1	5824.1	6063.9	6892.5	8273.6	10361.0	13164.8	14934.2	15319.9	14723.1	9732.9
55°	3291.2	3101.0	3640.4	4341.4	5644.3	7815.0	11129.6	13237.8	13951.8	13884.1	9206.5
57.5°	1318.6	1276.9	1461.9	1970.0	2944.6	4844.3	8093.8	10876.9	12020.8	12716.6	8091.2
60°	578.5	565.5	664.5	802.6	1203.9	2233.2	4427.4	6764.8	7958.3	8886.0	5568.8
62.5°	417.0	411.8	461.2	510.7	635.8	972.0	1860.6	2725.8	3398.1	4104.2	2493.8
65°	336.1	349.2	383.1	409.1	469.0	539.4	656.7	758.3	930.3	964.2	549.8
67.5°	273.6	284.0	315.3	344.0	354.4	291.8	302.3	265.8	265.8	237.2	190.2
70°	200.7	203.3	239.8	273.6	218.9	117.2	205.9	205.9	185.0	177.2	161.6
72.5°	148.5	151.1	179.8	169.4	86.0	73.0	151.1	166.8	151.1	143.3	130.3
75°	109.4	112.0	93.8	39.1	36.5	46.9	88.6	114.6	109.4	106.8	99.0
77.5°	20.9	15.6	13.0	18.2	26.1	39.1	57.4	70.4	73.0	78.2	73.0
80°	2.6	2.6	7.8	15.6	28.7	41.7	60.0	67.8	70.4	73.0	67.8
82.5°	0.0	2.6	7.8	15.6	28.7	39.1	52.1	60.0	65.2	67.8	65.2
85°	0.0	2.6	5.2	13.0	23.5	28.7	26.1	18.2	15.6	18.2	13.0
87.5°	0.0	0.0	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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°	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7
2.5°	1662.6	1652.1	1615.6	1576.5	1542.6	1558.3	1542.6	1529.6	1534.8	1529.6	1524.4
5°	1753.7	1706.8	1628.7	1594.8	1566.1	1563.5	1555.7	1553.1	1555.7	1555.7	1532.2
7.5°	1839.8	1764.2	1680.8	1644.3	1610.4	1613.0	1594.8	1594.8	1592.2	1579.1	1573.9
10°	1970.0	1868.4	1761.6	1696.4	1654.8	1646.9	1628.7	1610.4	1610.4	1610.4	1584.4
12.5°	2113.3	1985.7	1839.8	1764.2	1714.6	1675.6	1646.9	1641.7	1613.0	1607.8	1594.8
15°	2238.4	2076.8	1891.8	1787.6	1725.1	1673.0	1628.7	1600.0	1587.0	1579.1	1568.7
17.5°	2360.9	2155.1	1920.5	1787.6	1719.8	1660.0	1613.0	1587.0	1555.7	1560.9	1540.0
20°	2525.1	2238.4	1928.3	1753.7	1670.4	1613.0	1550.5	1537.4	1519.2	1503.6	1508.8
22.5°	2684.1	2298.4	1904.9	1712.0	1592.2	1524.4	1493.2	1477.6	1469.7	1456.7	1438.4
25°	2827.4	2363.5	1868.4	1636.5	1508.8	1459.3	1430.6	1428.0	1409.8	1409.8	1375.9
27.5°	2973.3	2387.0	1805.9	1547.9	1435.8	1407.2	1394.1	1388.9	1381.1	1362.8	1339.4
30°	3140.0	2394.7	1714.6	1456.7	1370.7	1339.4	1357.6	1370.7	1336.8	1303.0	1313.4
32.5°	3278.2	2376.6	1605.2	1370.7	1323.8	1308.2	1344.6	1357.6	1318.6	1282.1	1263.9
35°	3445.0	2332.3	1498.4	1303.0	1276.9	1308.2	1339.4	1339.4	1261.2	1216.9	1206.5
37.5°	3697.7	2282.7	1399.3	1245.6	1227.4	1292.5	1334.2	1305.6	1183.0	1128.4	1115.3
40°	3968.8	2251.4	1303.0	1188.2	1201.3	1266.5	1289.9	1201.3	1076.2	1042.3	1031.9
42.5°	4362.2	2189.0	1216.9	1138.8	1177.8	1230.0	1230.0	1071.0	1024.1	1005.8	1003.2
45°	4852.1	2144.6	1141.4	1097.1	1144.0	1157.0	1115.3	1003.2	969.4	964.2	966.8
47.5°	5091.8	2058.6	1063.2	1047.5	1081.4	1084.0	974.6	948.6	919.9	912.1	906.9
50°	5055.4	1904.9	961.6	982.4	1029.3	1003.2	888.6	893.8	867.7	865.1	852.1
52.5°	4800.0	1662.6	859.9	909.5	961.6	886.0	818.2	813.0	813.0	779.2	766.2
55°	4255.4	1339.4	737.5	800.0	862.5	745.3	727.0	721.8	708.8	677.5	669.7
57.5°	3369.4	982.4	555.1	622.8	732.3	633.2	630.6	607.2	573.3	549.8	549.8
60°	2003.9	565.5	349.2	380.5	484.7	513.3	570.7	560.3	502.9	466.4	456.0
62.5°	914.7	291.8	221.5	226.7	260.6	333.5	448.2	518.6	437.8	375.3	370.0
65°	307.5	216.3	182.4	174.6	179.8	200.7	268.4	367.4	349.2	289.2	278.8
67.5°	187.6	192.8	172.0	158.9	158.9	156.3	153.7	166.8	205.9	200.7	203.3
70°	161.6	177.2	158.9	143.3	138.1	130.3	109.4	91.2	78.2	91.2	96.4
72.5°	130.3	140.7	135.5	122.4	109.4	99.0	78.2	60.0	44.3	39.1	39.1
75°	96.4	104.2	109.4	93.8	83.4	70.4	57.4	39.1	23.5	15.6	15.6
77.5°	70.4	78.2	80.8	73.0	62.6	49.5	36.5	26.1	13.0	5.2	5.2
80°	60.0	70.4	78.2	73.0	65.2	46.9	33.9	18.2	10.4	2.6	2.6
82.5°	57.4	70.4	78.2	70.4	62.6	44.3	33.9	20.9	7.8	2.6	2.6
85°	13.0	18.2	23.5	28.7	33.9	33.9	26.1	15.6	7.8	2.6	2.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	2.6	2.6	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)