

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: P651938

Luminaire Tested: **GALN-SA6A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-840-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20579.3 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

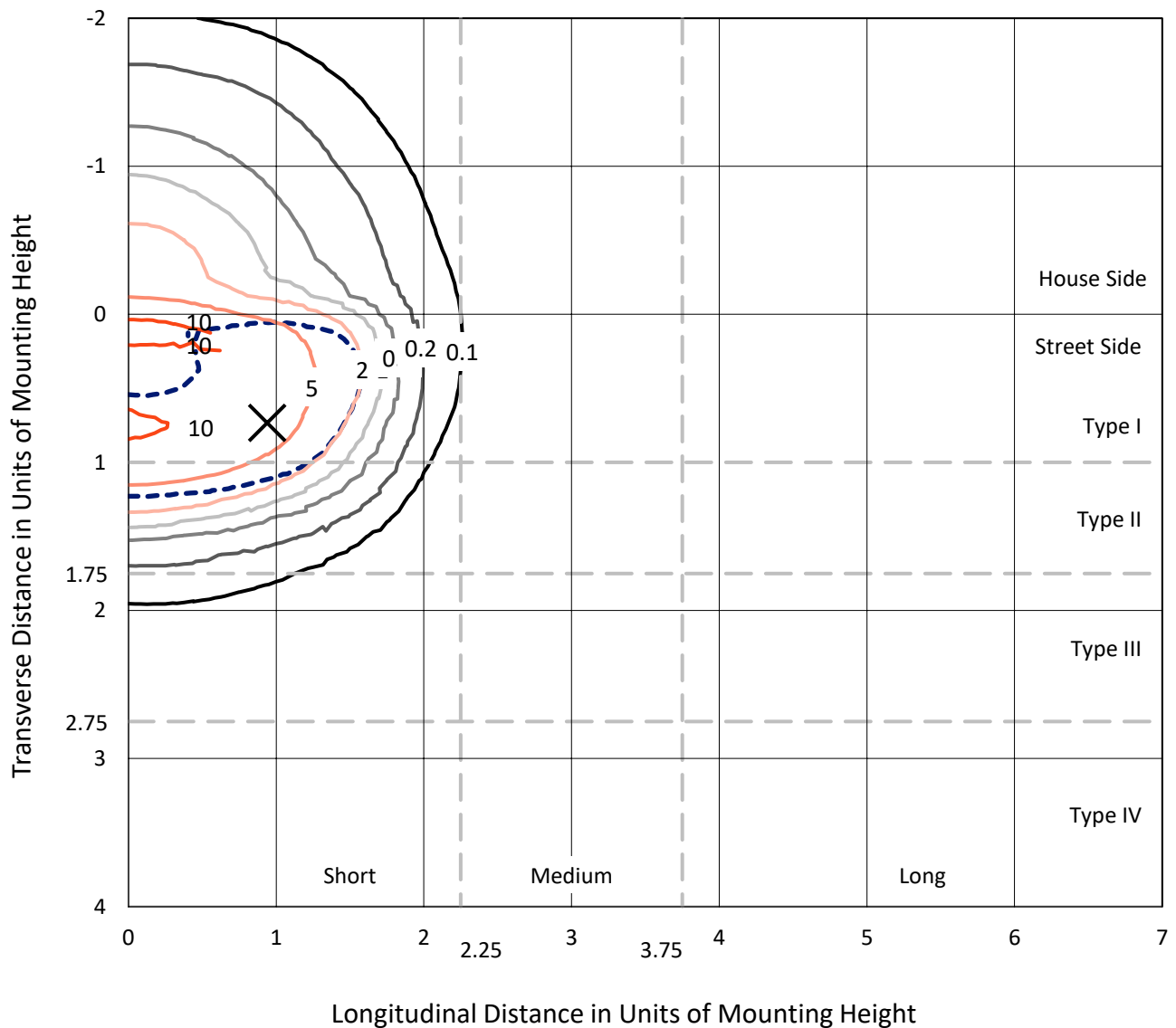
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

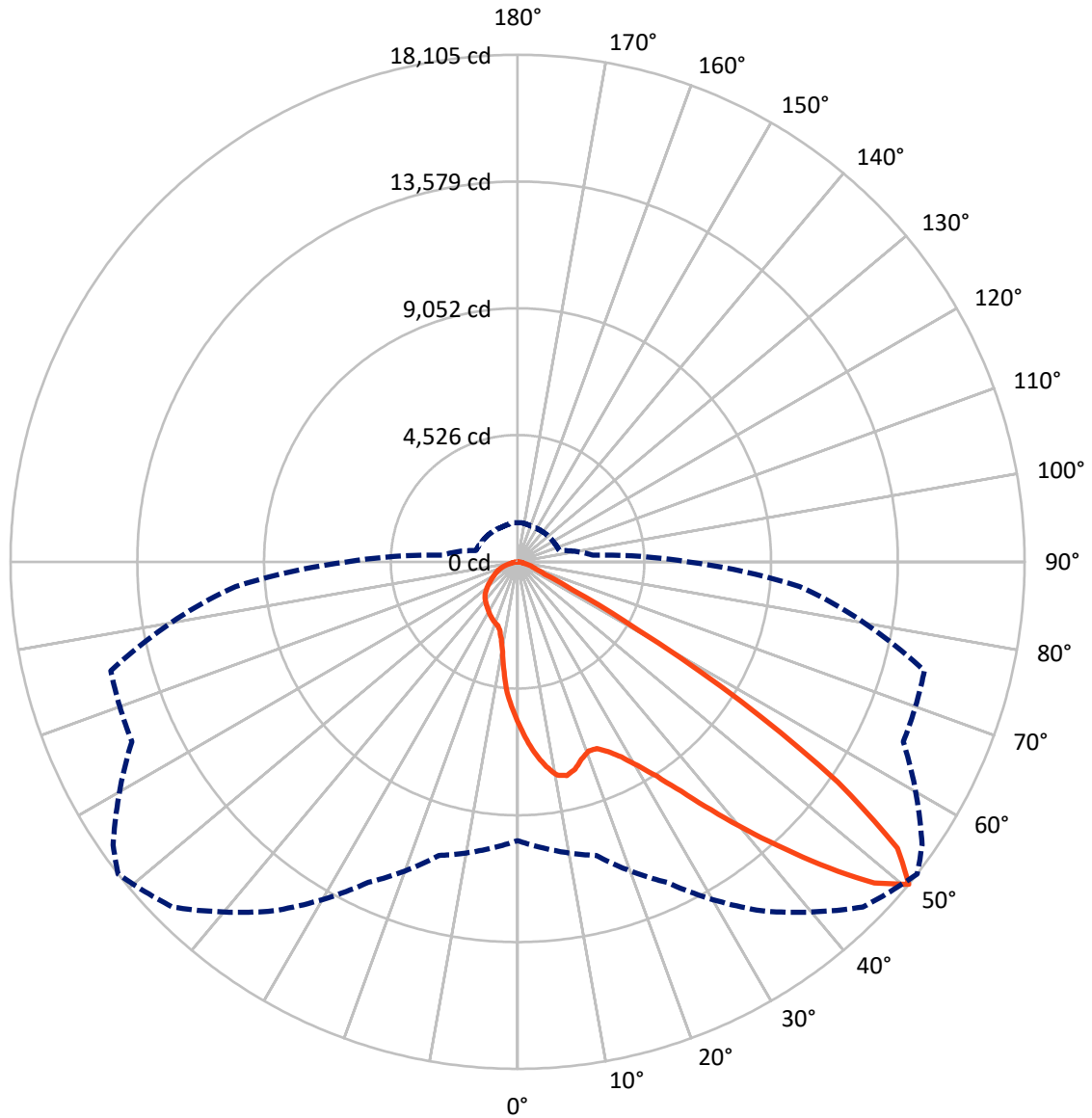
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3868.4	0.0	3868.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16710.8	0.0	16710.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20579.3	0.0	20579.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.7	2.6
10°-20°	1433.1	7.0
20°-30°	2413.9	11.7
30°-40°	4050.8	19.7
40°-50°	6196.7	30.1
50°-60°	4517.9	22.0
60°-70°	1005.5	4.9
70°-80°	362.6	1.8
80°-90°	64.2	0.3
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°	20579.3	100.0
0°-180°	20579.3	100.0

**Coefficient of Utilization**



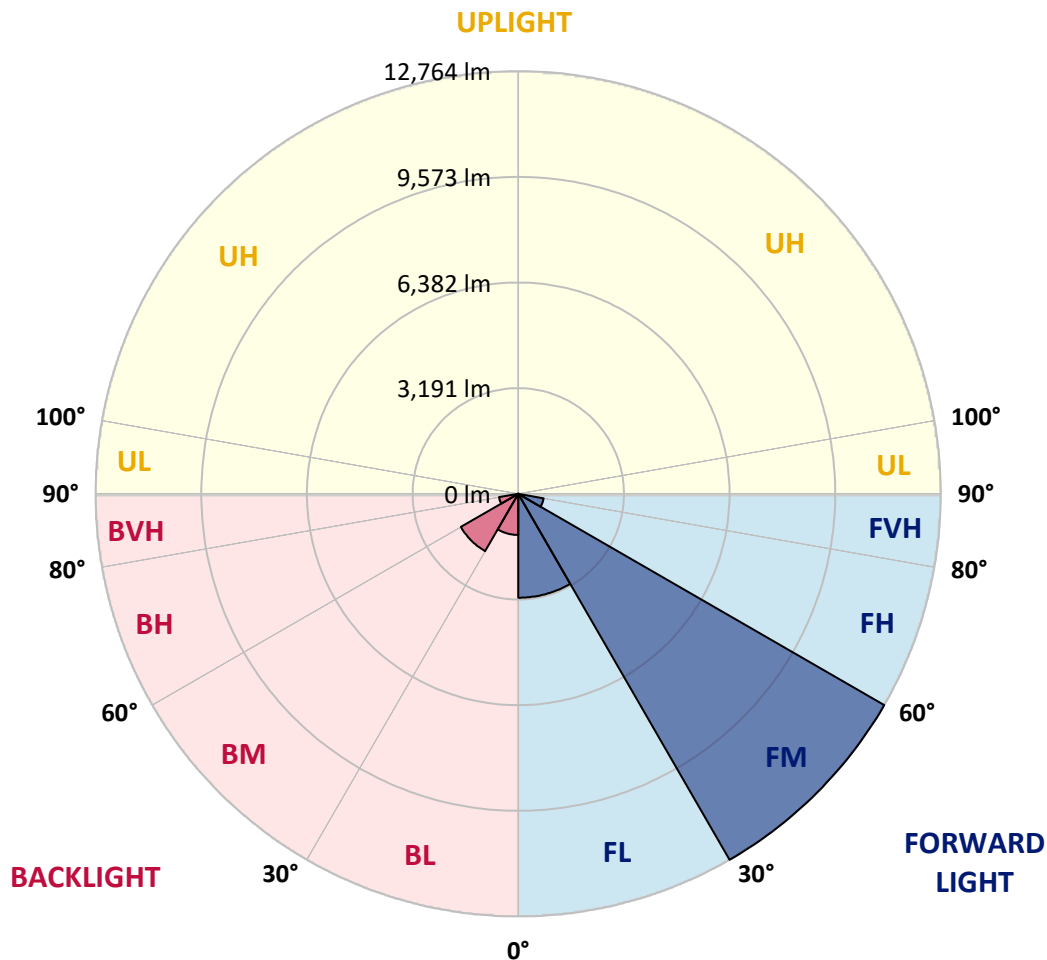
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3139.0	15.3			
FM (30°-60°)	12764.3	62.0			
FH (60°-80°)	778.7	3.8			G1/1800
FVH (80°-90°)	28.8	0.1			G1/100
BL (0°-30°)	1242.6	6.0	B3/2500		
BM (30°-60°)	2001.0	9.7	B2/2500		
BH (60°-80°)	589.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	35.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0
2.5°	6830.2	6698.7	6713.6	6619.4	6517.7	6488.0	6383.8	6284.5	6210.2	6051.4	5905.1
5°	7465.1	7425.4	7365.9	7291.5	7214.6	7026.1	6919.5	6795.4	6522.6	6277.1	6034.1
7.5°	7556.9	7549.4	7581.7	7581.7	7608.9	7537.0	7385.7	7299.0	7008.7	6609.5	6158.1
10°	6912.0	6934.4	7090.6	7294.0	7576.7	7772.6	7747.8	7725.5	7408.0	6862.5	6304.4
12.5°	6398.7	6349.0	6440.8	6614.5	7038.5	7512.2	7832.1	7834.7	7752.8	7266.7	6411.0
15°	6108.5	6143.2	6168.0	6249.9	6569.8	7117.9	7680.9	7847.0	8206.6	7551.9	6579.7
17.5°	6294.5	6177.9	6172.9	6192.8	6356.5	6768.2	7400.6	7685.8	8454.7	7918.9	6788.0
20°	6537.5	6535.1	6465.6	6440.8	6438.4	6805.4	7217.1	7604.0	8586.1	8395.1	6998.8
22.5°	6964.2	6964.2	6850.0	6795.4	6678.9	6979.0	7241.9	7504.7	8804.3	8722.5	7100.6
25°	7678.4	7561.9	7365.9	7232.0	7165.0	7271.6	7504.7	7740.4	8995.3	9069.8	7311.3
27.5°	8338.1	8154.6	8057.9	7827.2	7737.9	7675.9	7889.2	8127.3	9218.5	9610.4	7425.4
30°	9087.1	9054.9	8881.2	8583.7	8362.9	8248.8	8444.7	8680.4	9627.8	10163.5	7688.3
32.5°	10426.4	10133.7	9898.1	9533.5	9173.9	8930.8	9124.3	9280.5	10307.3	10741.3	7976.0
35°	11872.2	11778.0	11371.2	10714.0	10163.5	9945.2	10059.3	10175.8	11098.4	11624.2	8459.6
37.5°	13293.4	13164.3	12829.5	12276.5	11606.9	11162.9	11244.8	11381.2	11986.4	12814.7	9049.9
40°	14315.2	14156.4	13987.8	13905.9	13241.3	12633.7	12586.5	12621.2	13186.7	13930.7	9704.6
42.5°	14389.5	14585.5	14637.5	14967.4	14811.2	14312.6	14022.5	14029.9	14332.5	15034.4	10366.8
45°	14233.3	14052.3	14436.7	15337.0	15852.8	16085.9	15597.4	15535.4	15041.8	15674.2	10696.7
47.5°	12594.0	12643.6	13293.4	14716.9	16207.4	17249.1	17135.0	16929.2	15421.2	15651.9	10644.6
50°	9955.1	10255.2	10857.9	12631.1	15215.5	17432.6	18104.7	17628.5	15195.6	15036.8	10113.9
52.5°	6629.3	6753.3	7150.1	9439.3	12234.4	15582.5	16988.7	17097.8	14987.2	14230.8	9441.7
55°	2951.3	2941.4	3499.4	4930.4	7675.9	11857.3	13881.1	14545.8	14186.2	13409.9	8787.0
57.5°	1250.0	1292.1	1520.3	2130.4	3774.7	7155.1	9404.6	9987.4	10910.0	11011.6	6741.0
60°	845.7	850.7	912.7	1066.5	1579.8	3360.6	4932.9	5632.3	6292.0	6247.4	3576.3
62.5°	664.6	682.1	729.1	791.1	937.5	1525.2	2207.3	2596.7	2638.8	2219.7	1356.6
65°	567.9	570.5	617.5	669.6	734.1	887.8	1063.9	1083.8	1096.2	1056.5	997.0
67.5°	468.8	473.7	510.9	570.5	629.9	679.5	729.1	754.0	811.0	922.6	907.7
70°	372.0	379.5	411.7	461.3	515.9	545.6	607.6	629.9	682.1	768.8	803.6
72.5°	282.7	285.2	312.5	347.2	396.8	426.6	478.7	503.4	538.2	612.6	644.8
75°	203.4	210.8	230.7	248.0	255.4	275.3	324.9	352.2	401.7	434.0	436.5
77.5°	106.6	111.6	116.6	116.6	141.4	178.5	210.8	225.7	260.4	285.2	272.8
80°	42.1	44.7	57.0	76.9	99.2	128.9	151.3	158.7	188.5	203.4	210.8
82.5°	24.8	27.2	37.2	54.6	71.9	91.8	109.2	116.6	136.4	153.7	158.7
85°	12.4	14.9	22.3	34.7	47.1	57.0	54.6	52.1	52.1	49.6	52.1
87.5°	5.0	5.0	7.4	7.4	7.4	9.9	12.4	12.4	12.4	14.9	14.9
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°	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0	5801.0
2.5°	5808.4	5709.2	5617.5	5448.8	5265.2	5213.2	4999.9	4923.0	4868.5	4804.0	4784.1
5°	5838.1	5706.7	5411.6	5071.8	4801.4	4454.3	4226.1	3980.5	3802.0	3757.3	3745.0
7.5°	5900.1	5674.5	5166.0	4652.7	4099.6	3628.4	3268.8	3075.3	2904.2	2894.3	2876.9
10°	5969.6	5577.8	4898.2	4092.1	3385.4	2948.8	2733.1	2648.7	2606.6	2596.7	2591.7
12.5°	6026.6	5557.9	4598.1	3546.6	2879.4	2616.5	2552.0	2544.6	2561.9	2566.9	2576.8
15°	6051.4	5478.5	4236.0	3058.0	2564.5	2467.7	2495.0	2524.8	2537.1	2569.4	2544.6
17.5°	6098.6	5376.8	3789.6	2671.1	2388.4	2405.7	2452.9	2487.5	2507.4	2529.7	2497.4
20°	6123.4	5285.1	3370.5	2440.4	2326.4	2358.6	2423.1	2450.3	2475.1	2485.1	2447.9
22.5°	6101.0	5096.6	3000.9	2254.4	2266.8	2309.0	2366.0	2395.8	2380.9	2341.2	2318.9
25°	6041.5	4831.2	2616.5	2135.4	2182.5	2256.9	2301.6	2279.2	2251.9	2229.6	2222.2
27.5°	6039.1	4506.3	2338.7	2026.2	2110.6	2212.3	2197.4	2177.5	2190.0	2172.6	2152.7
30°	6051.4	4191.4	2110.6	1964.2	2058.5	2108.1	2125.5	2105.6	2120.5	2088.2	2098.1
32.5°	5987.0	3883.8	1961.8	1892.3	1996.4	1994.0	2051.0	2065.9	2031.2	1964.2	1974.2
35°	6014.2	3635.8	1835.3	1860.0	1927.1	1927.1	1971.6	1954.3	1862.6	1822.9	1832.8
37.5°	6202.7	3392.8	1773.2	1815.5	1860.0	1879.9	1865.0	1790.7	1768.3	1768.3	1773.2
40°	6381.3	3184.4	1736.1	1805.5	1798.1	1810.5	1701.3	1708.8	1708.8	1711.3	1698.9
42.5°	6540.0	3043.1	1706.3	1746.0	1758.4	1693.9	1626.9	1619.5	1636.8	1634.4	1624.5
45°	6597.1	2926.5	1664.2	1679.1	1689.0	1582.3	1550.0	1535.2	1555.0	1562.5	1572.4
47.5°	6378.8	2829.8	1617.0	1587.3	1567.5	1498.0	1455.9	1428.5	1453.3	1495.5	1505.4
50°	6098.6	2703.3	1542.6	1485.5	1443.4	1413.6	1383.9	1356.6	1373.9	1403.7	1396.3
52.5°	5684.4	2504.9	1448.4	1388.8	1316.9	1324.4	1297.1	1282.2	1292.1	1292.1	1284.7
55°	5094.1	2058.5	1289.7	1247.5	1188.0	1207.8	1212.8	1193.0	1173.1	1190.4	1175.5
57.5°	3477.1	1453.3	1150.7	1150.7	1091.3	1118.5	1116.0	1068.9	1021.8	1026.8	1016.9
60°	2011.3	1158.2	1061.5	1051.6	989.5	1011.9	1016.9	984.6	912.7	917.6	907.7
62.5°	1143.3	989.5	927.5	912.7	900.3	920.1	920.1	877.9	815.9	820.9	811.0
65°	972.2	917.6	828.4	825.9	820.9	825.9	806.0	761.4	706.9	684.5	687.0
67.5°	882.9	848.2	761.4	739.1	724.2	721.7	684.5	642.4	617.5	597.7	595.3
70°	773.8	746.5	682.1	652.3	637.4	602.7	565.5	538.2	503.4	493.5	503.4
72.5°	612.6	610.1	585.3	553.0	520.8	493.5	461.3	424.1	391.8	384.4	367.1
75°	424.1	429.1	434.0	429.1	401.7	367.1	329.8	300.1	260.4	238.1	233.1
77.5°	277.8	285.2	292.7	282.7	265.3	233.1	208.3	171.1	141.4	124.0	121.5
80°	203.4	213.3	218.2	210.8	191.0	166.2	138.8	109.2	86.8	71.9	71.9
82.5°	156.3	166.2	171.1	158.7	138.8	119.1	99.2	76.9	59.5	47.1	44.7
85°	54.6	52.1	62.0	64.5	76.9	71.9	59.5	44.7	34.7	24.8	22.3
87.5°	14.9	14.9	17.3	17.3	14.9	12.4	12.4	12.4	9.9	7.4	7.4
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)