

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: P456010

Luminaire Tested: **GALN-SA7B-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33780 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

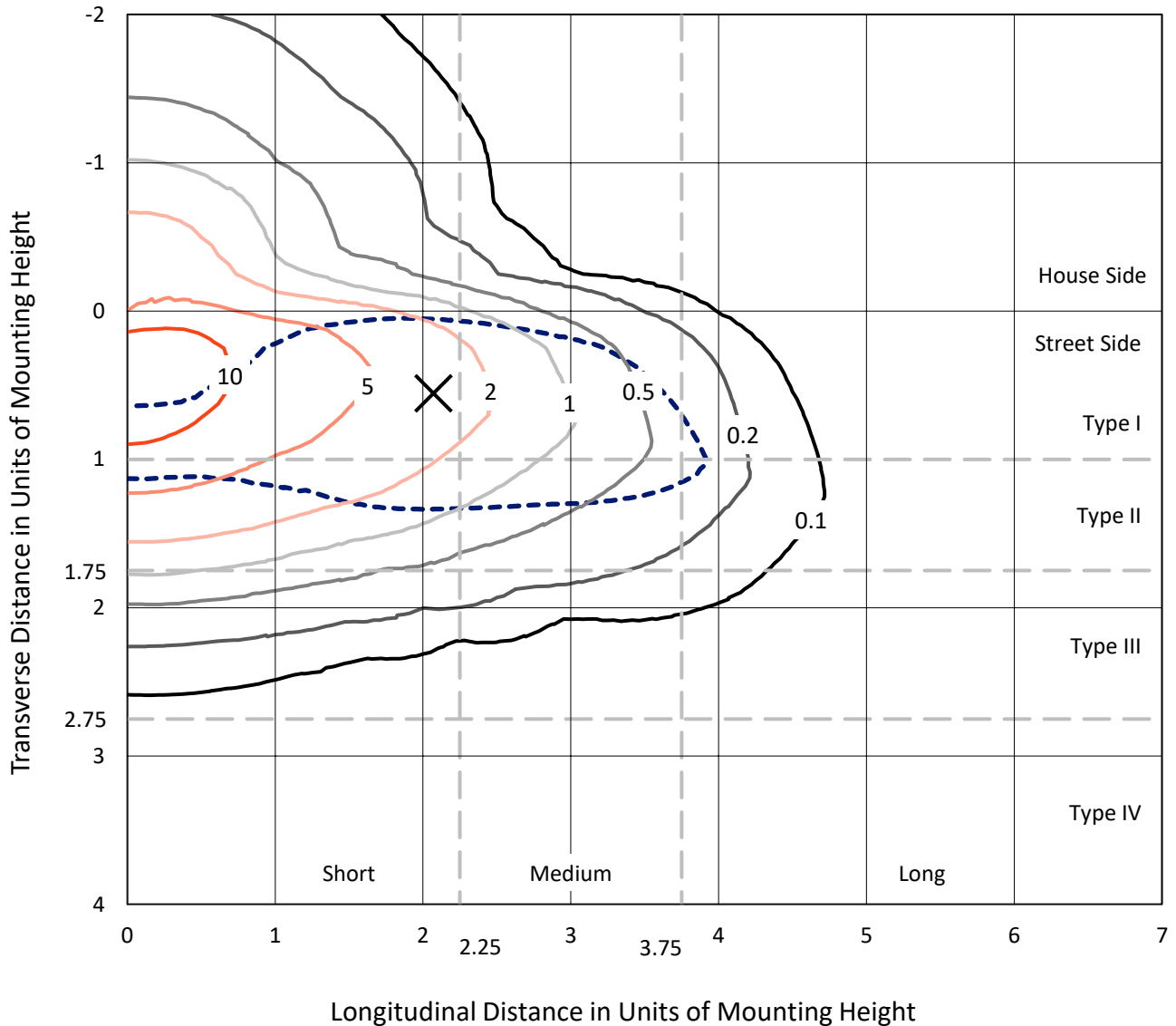
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

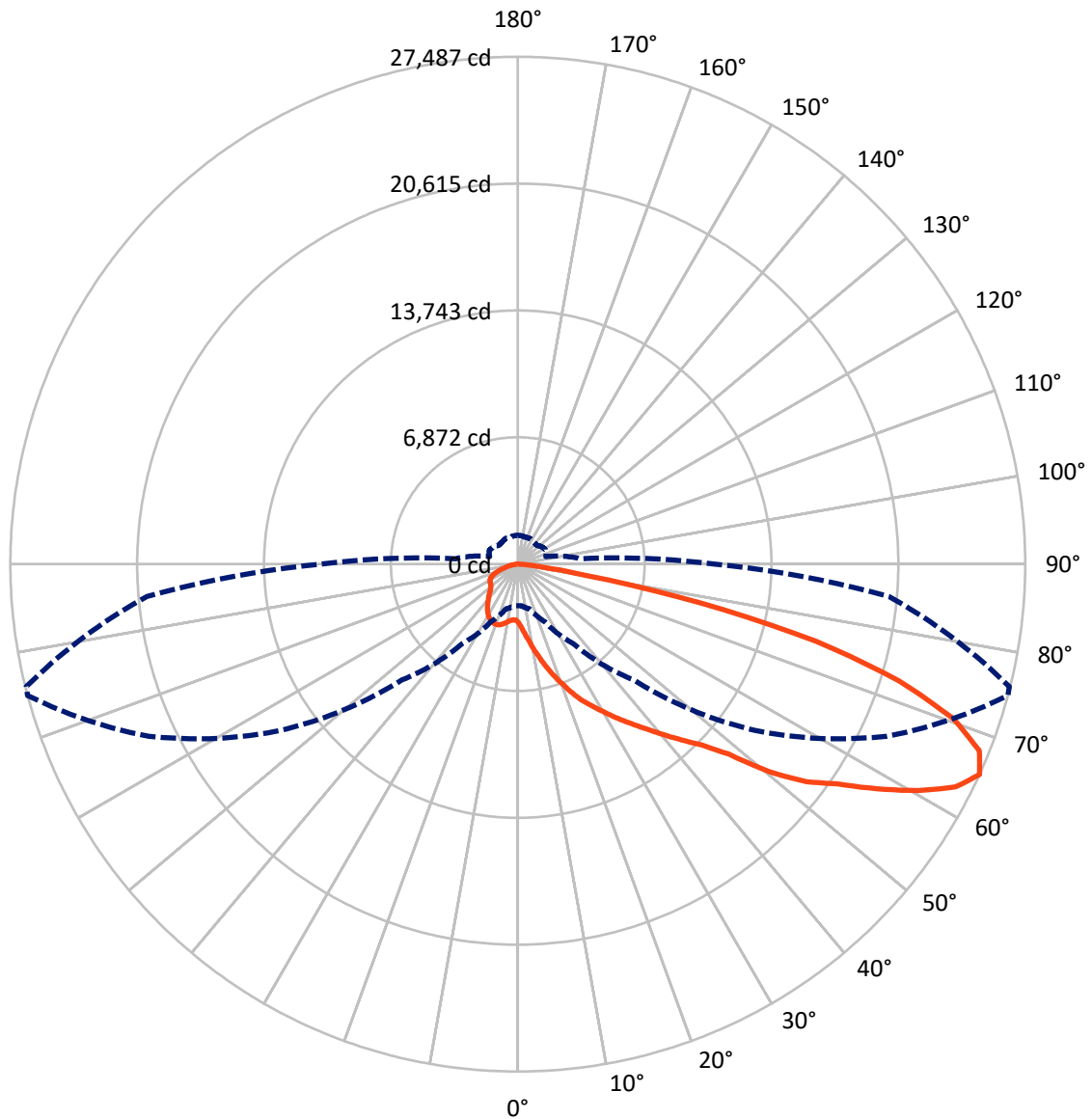
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5678.9	0.0	5678.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28101.1	0.0	28101.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	33780.0	0.0	33780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	1.1
10°-20°	1493.6	4.4
20°-30°	2885.2	8.5
30°-40°	4686.4	13.9
40°-50°	6446.5	19.1
50°-60°	7611.1	22.5
60°-70°	6668.6	19.7
70°-80°	3183.6	9.4
80°-90°	423.6	1.3
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°	33780.0	100.0
0°-180°	33780.0	100.0

Coefficient of Utilization



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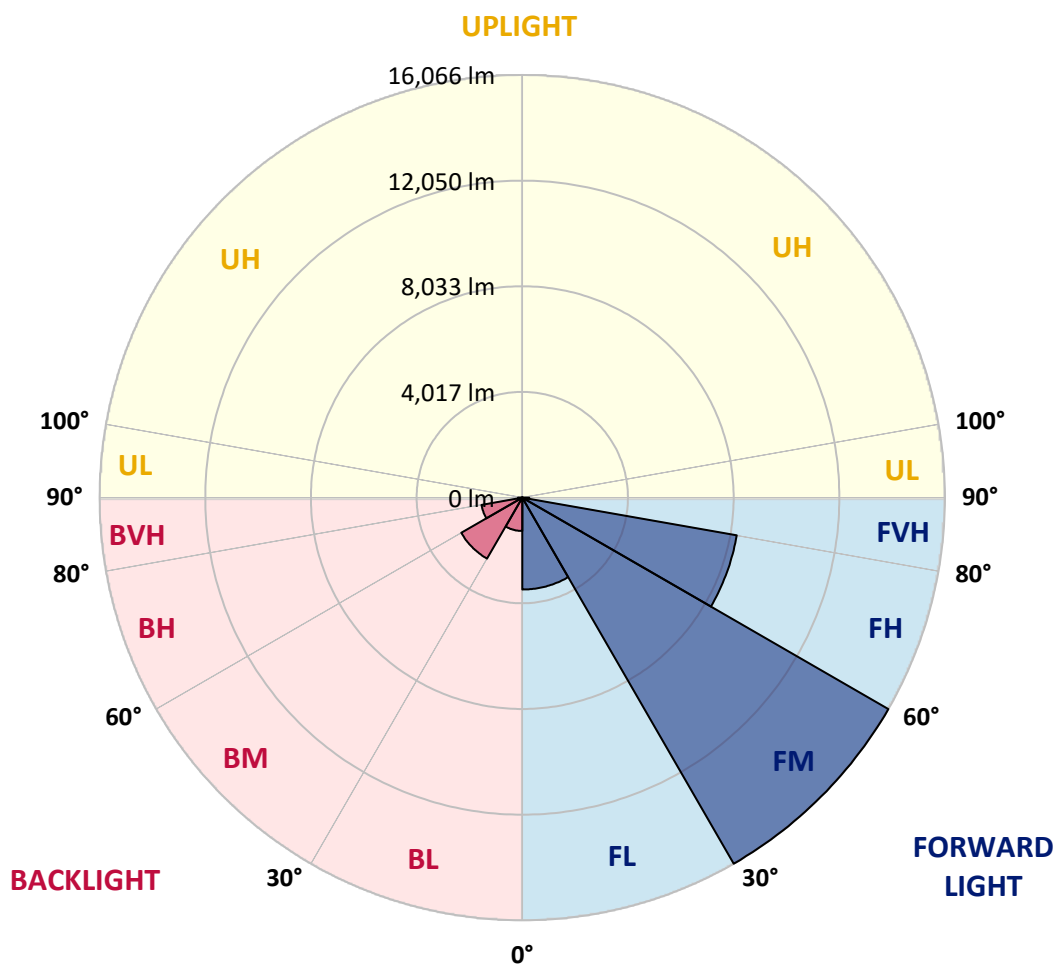
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3492.3	10.3			
FM (30°-60°)	16066.5	47.6			
FH (60°-80°)	8277.6	24.5			G4/12000
FVH (80°-90°)	264.7	0.8			G3/500
BL (0°-30°)	1267.8	3.8	B3/2500		
BM (30°-60°)	2677.5	7.9	B3/5000		
BH (60°-80°)	1574.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	158.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6
2.5°	4170.1	4142.6	4113.3	4032.7	3946.6	3849.5	3710.2	3576.5	3398.8	3393.3	3261.3
5°	5326.3	5307.9	5177.8	5102.7	4903.0	4637.3	4412.0	4062.0	3737.7	3699.2	3442.7
7.5°	6388.9	6317.5	6268.0	6132.4	5934.6	5593.8	5157.7	4685.0	4142.6	4091.3	3666.3
10°	7189.6	7182.3	7156.6	7039.4	6891.0	6552.0	6068.3	5390.4	4655.7	4554.9	3937.4
12.5°	7788.8	7794.3	7790.6	7788.8	7682.5	7394.8	6870.8	6156.3	5174.2	5102.7	4250.7
15°	8182.7	8237.7	8259.6	8351.2	8360.4	8168.0	7717.3	6896.5	5758.7	5652.4	4587.9
17.5°	8442.9	8470.3	8572.9	8728.7	8855.1	8820.3	8419.0	7581.7	6356.0	6178.2	4937.8
20°	8692.0	8739.7	8818.5	9031.0	9254.5	9357.1	9075.0	8283.5	6947.8	6834.2	5324.4
22.5°	9210.6	9278.3	9305.8	9413.9	9604.5	9785.9	9657.6	8955.9	7596.4	7442.5	5734.8
25°	10088.2	10159.6	10082.7	10057.0	10119.3	10209.1	10181.6	9589.8	8208.3	7988.5	6123.3
27.5°	11231.5	11240.7	11090.4	10947.5	10793.6	10747.8	10663.5	10152.3	8739.7	8556.5	6513.5
30°	12459.1	12415.1	12165.9	11907.6	11647.4	11390.9	11149.0	10694.7	9331.5	9120.8	6896.5
32.5°	13598.7	13574.9	13298.2	12897.0	12457.2	12215.4	11726.2	11242.5	9965.4	9762.1	7290.4
35°	14452.5	14487.3	14183.2	13745.3	13265.3	13050.9	12433.4	11817.8	10621.4	10399.7	7719.1
37.5°	15059.0	15040.7	14771.3	14392.1	13970.7	13783.8	13259.8	12446.3	11326.8	11114.2	8188.2
40°	15275.2	15264.2	15064.5	14787.8	14520.3	14454.4	14124.6	13124.2	12134.8	11885.6	8752.5
42.5°	15137.8	15161.6	15029.7	14954.6	14905.1	14952.7	14983.9	14012.8	13016.1	12787.0	9364.5
45°	14716.4	14703.5	14685.2	14808.0	15086.5	15399.8	15834.0	14852.0	13974.3	13791.1	10185.3
47.5°	13963.3	14054.9	14100.7	14439.7	15048.0	15790.1	16812.4	15976.9	15365.0	15205.6	11436.7
50°	12909.8	12983.1	13254.3	13857.1	14764.0	15936.6	17768.8	17816.5	17684.6	17385.9	12796.2
52.5°	11264.5	11378.1	11936.9	13041.7	14181.4	15876.2	18347.8	19394.0	19568.1	19344.6	14135.6
55°	9423.1	9582.5	10172.5	11621.8	13378.9	15546.4	18747.2	20308.3	21002.7	20795.7	15425.4
57.5°	7620.2	7788.8	8395.2	9798.7	11979.0	14817.1	19009.3	21327.0	22955.9	22686.5	17030.5
60°	5711.0	5886.9	6407.3	7852.9	9985.6	13391.7	18831.5	22210.1	24907.2	24791.7	18637.3
62.5°	3684.6	3878.8	4331.4	5527.8	7675.2	11444.0	17880.6	22697.5	26596.5	26457.2	19809.9
65°	2244.5	2266.5	2515.6	3431.7	5253.0	8860.6	15705.8	22050.7	27486.9	27444.8	20167.2
67.5°	1451.1	1485.9	1599.5	2055.7	3149.6	6154.4	12558.0	19916.2	26966.6	26951.9	19428.8
70°	1225.8	1236.7	1288.0	1387.0	1830.4	3732.2	8818.5	16513.8	24989.6	24989.6	17653.4
72.5°	1095.7	1110.3	1128.6	1159.8	1306.4	2114.4	5262.1	12854.8	21576.2	21719.1	15026.0
75°	994.9	991.2	1002.2	1007.7	1114.0	1381.5	2720.8	9507.4	16691.5	16405.7	10881.5
77.5°	852.0	857.5	852.0	875.8	983.9	1051.7	1381.5	6379.8	10115.7	9745.6	5461.8
80°	699.9	709.1	718.2	732.9	841.0	798.8	830.0	2907.7	3741.4	3662.6	1687.5
82.5°	525.8	538.7	553.3	588.1	661.4	527.7	524.0	1242.2	1350.3	1236.7	621.1
85°	212.5	251.0	379.3	414.1	415.9	289.5	322.5	518.5	551.5	538.7	243.7
87.5°	49.5	58.6	122.8	185.1	170.4	108.1	119.1	168.6	192.4	177.7	82.4
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°	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6
2.5°	3200.9	3136.8	3026.8	2942.5	2882.1	2828.9	2796.0	2775.8	2768.5	2766.6	2768.5
5°	3309.0	3195.4	3021.3	2911.4	2850.9	2816.1	2796.0	2794.1	2796.0	2797.8	2792.3
7.5°	3457.4	3294.3	3067.1	2964.5	2918.7	2893.1	2883.9	2880.2	2882.1	2880.2	2880.2
10°	3655.3	3431.7	3156.9	3050.6	3012.2	2982.9	2968.2	2959.0	2951.7	2944.4	2940.7
12.5°	3873.3	3583.8	3254.0	3151.4	3096.4	3050.6	3017.7	2993.8	2977.4	2960.9	2957.2
15°	4117.0	3745.1	3362.1	3219.2	3140.4	3072.6	3015.8	2977.4	2948.0	2924.2	2922.4
17.5°	4349.7	3897.1	3435.4	3250.4	3134.9	3039.6	2964.5	2911.4	2874.7	2843.6	2839.9
20°	4598.9	4041.9	3468.4	3230.2	3080.0	2964.5	2865.6	2801.5	2759.3	2724.5	2719.0
22.5°	4849.9	4164.6	3464.7	3166.1	2984.7	2849.1	2744.7	2676.9	2627.4	2592.6	2579.8
25°	5089.9	4263.6	3418.9	3063.5	2852.8	2711.7	2605.4	2543.1	2499.1	2457.0	2457.0
27.5°	5306.1	4322.2	3332.8	2938.9	2717.2	2568.8	2484.5	2427.7	2387.4	2359.9	2343.4
30°	5518.6	4349.7	3215.5	2781.3	2574.3	2447.8	2380.1	2347.1	2310.4	2279.3	2275.6
32.5°	5709.2	4344.2	3069.0	2627.4	2438.7	2348.9	2321.4	2295.8	2257.3	2213.3	2202.3
35°	5894.2	4307.5	2894.9	2458.8	2325.1	2290.3	2297.6	2261.0	2191.3	2136.4	2127.2
37.5°	6095.8	4241.6	2704.4	2321.4	2229.8	2262.8	2281.1	2200.5	2086.9	2000.8	1980.6
40°	6328.5	4166.5	2506.5	2184.0	2154.7	2237.1	2237.1	2088.7	1933.0	1879.9	1865.2
42.5°	6601.5	4104.2	2341.6	2068.6	2092.4	2174.8	2165.7	1940.3	1876.2	1848.7	1841.4
45°	7033.9	4082.2	2171.2	1967.8	2041.1	2101.6	2026.4	1889.0	1852.4	1830.4	1823.1
47.5°	7717.3	4107.8	2020.9	1892.7	1982.5	2028.3	1870.7	1854.2	1828.6	1797.4	1793.7
50°	8351.2	4084.0	1914.7	1850.5	1931.2	1940.3	1806.6	1812.1	1797.4	1762.6	1755.3
52.5°	8869.8	4008.9	1846.9	1828.6	1887.2	1786.4	1746.1	1766.3	1760.8	1716.8	1709.5
55°	9439.6	3963.1	1813.9	1828.6	1857.9	1652.7	1689.3	1718.6	1711.3	1680.1	1678.3
57.5°	10130.3	3972.2	1790.1	1834.0	1828.6	1584.9	1632.5	1667.3	1665.5	1656.3	1656.3
60°	10837.6	3975.9	1753.4	1832.2	1793.7	1531.7	1573.9	1623.3	1627.0	1632.5	1632.5
62.5°	11072.1	3816.5	1682.0	1799.2	1716.8	1480.4	1518.9	1586.7	1583.0	1597.7	1599.5
65°	10634.2	3374.9	1575.7	1724.1	1617.8	1443.8	1476.8	1539.1	1518.9	1557.4	1564.7
67.5°	9679.6	2792.3	1410.8	1588.5	1507.9	1405.3	1449.3	1473.1	1436.5	1511.6	1513.4
70°	8365.9	2180.3	1201.9	1396.1	1383.3	1365.0	1427.3	1390.7	1339.4	1431.0	1412.6
72.5°	6995.4	1665.5	960.1	1141.5	1216.6	1304.5	1388.8	1284.4	1212.9	1240.4	1207.4
75°	5254.8	1231.3	771.4	894.1	1013.2	1218.4	1354.0	1156.1	1046.2	1020.5	1013.2
77.5°	2678.7	804.3	577.1	668.8	760.4	1101.2	1306.4	1005.9	866.6	826.3	808.0
80°	956.4	500.2	406.8	461.7	513.0	947.3	1141.5	831.8	672.4	665.1	672.4
82.5°	443.4	322.5	273.0	302.3	304.1	632.1	870.3	621.1	511.2	776.9	655.9
85°	190.6	161.2	153.9	150.2	139.2	282.2	489.2	333.5	520.3	232.7	214.4
87.5°	56.8	64.1	56.8	42.1	31.1	31.1	49.5	18.3	12.8	9.2	9.2
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)