

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: P455994

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
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-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33470 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

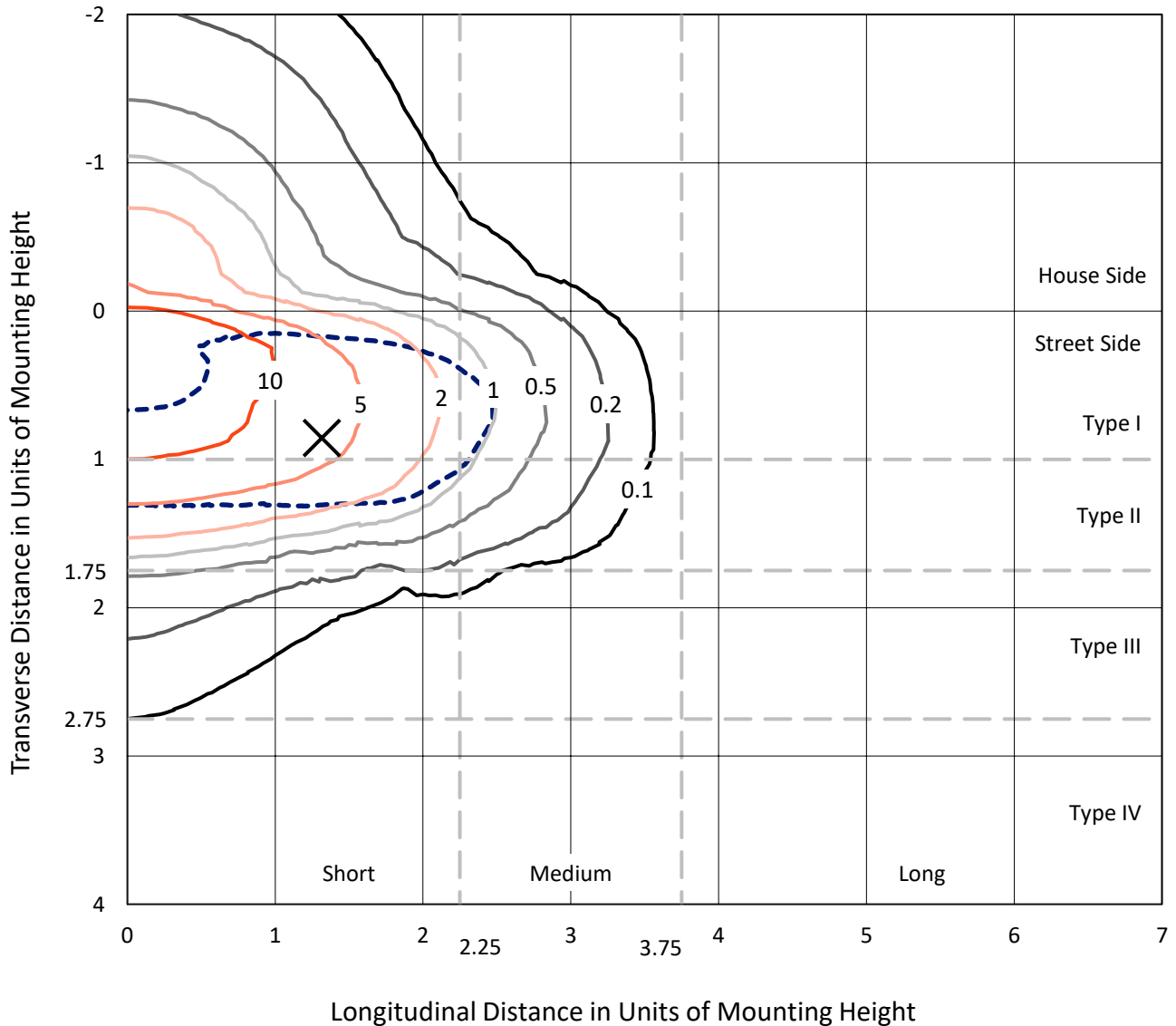
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

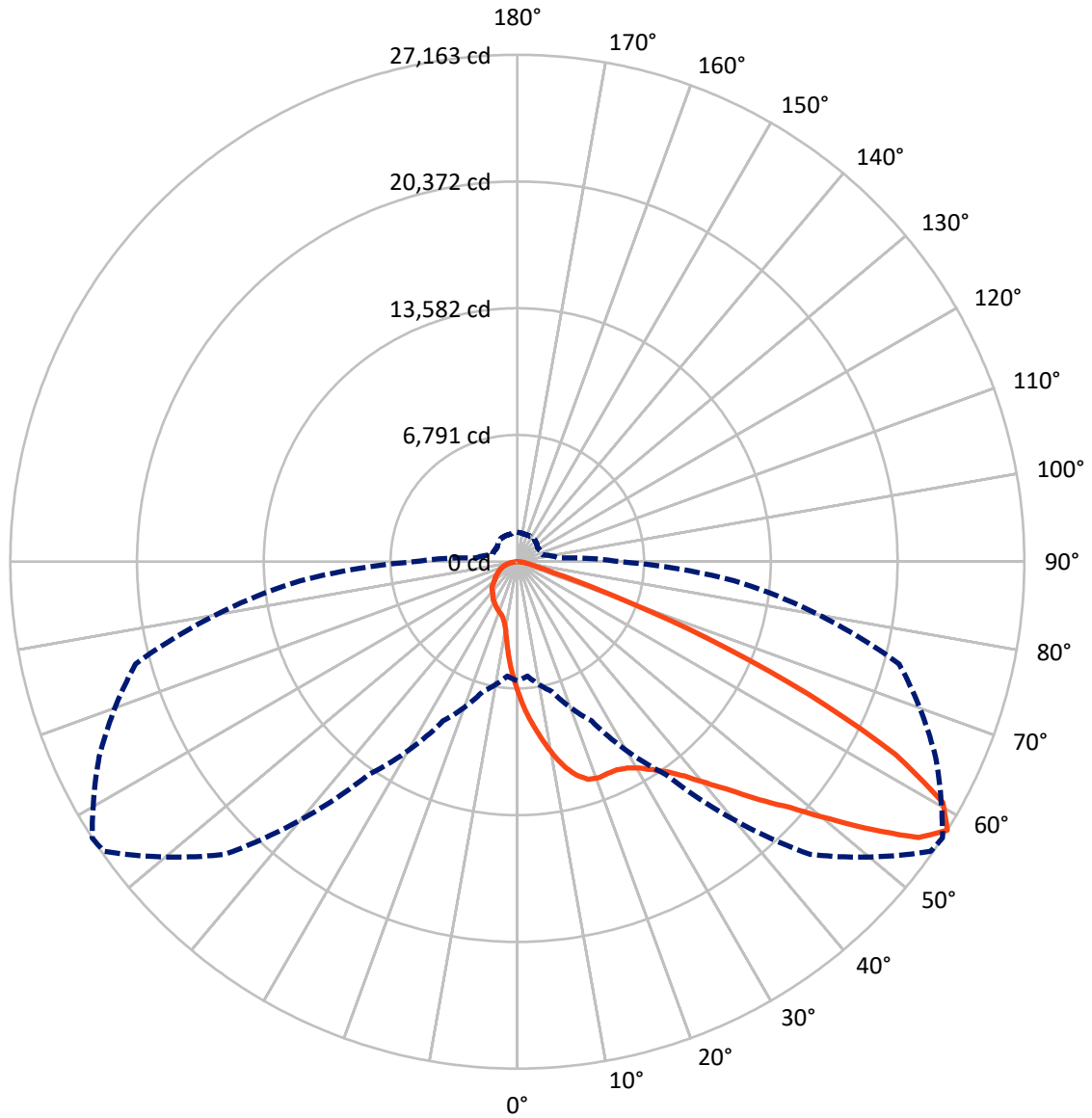
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5089.8	0.0	5089.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	28380.2	0.0	28380.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	33470.0	0.0	33470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.8	2.0
10°-20°	1991.7	6.0
20°-30°	3307.2	9.9
30°-40°	4981.6	14.9
40°-50°	7479.4	22.3
50°-60°	8383.4	25.0
60°-70°	4906.4	14.7
70°-80°	1451.3	4.3
80°-90°	293.3	0.9
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°	33470.0	100.0
0°-180°	33470.0	100.0

Coefficient of Utilization



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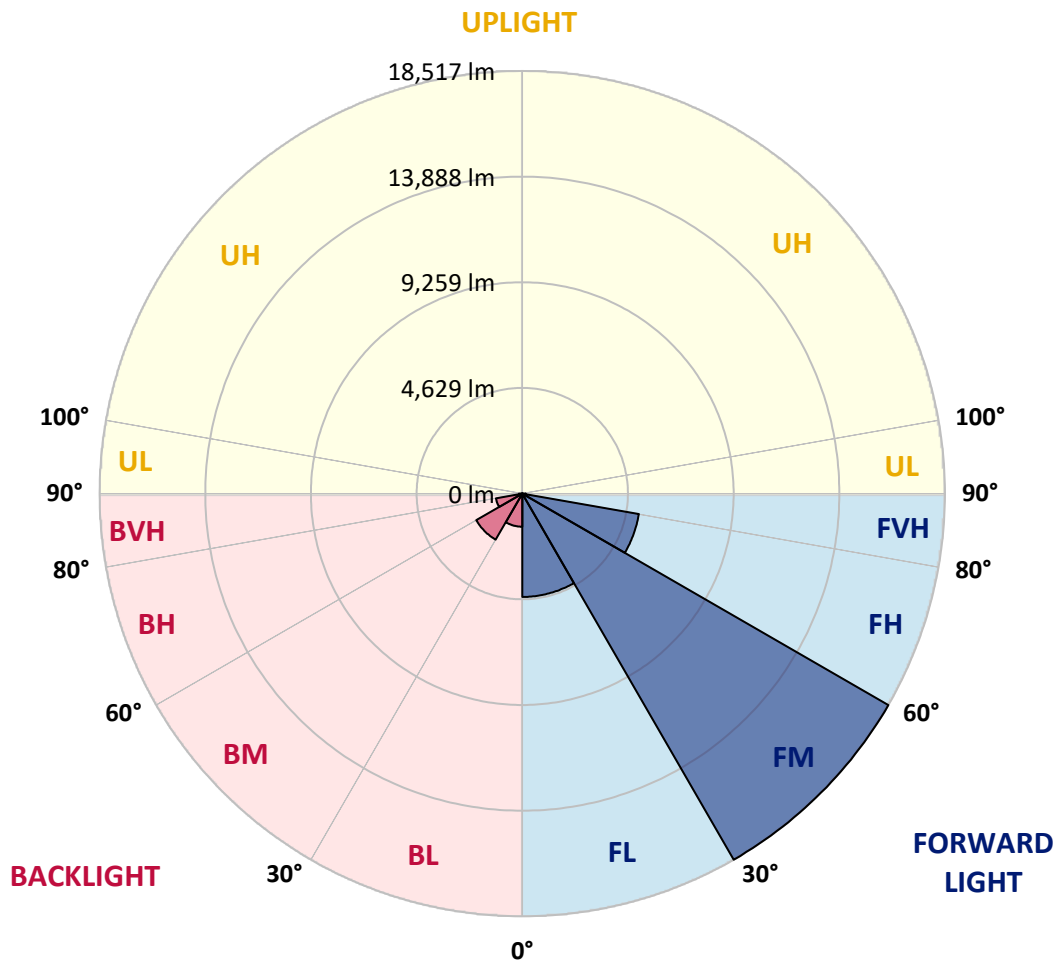
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4524.4	13.5			
FM	(30°-60°)	18517.1	55.3			
FH	(60°-80°)	5186.5	15.5			G3/7500
FVH	(80°-90°)	152.2	0.5			G2/225
BL	(0°-30°)	1450.3	4.3	B3/2500		
BM	(30°-60°)	2327.3	7.0	B2/2500		
BH	(60°-80°)	1171.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	141.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7
2.5°	8737.4	8642.1	8567.0	8501.0	8414.9	8182.2	7949.6	7945.9	7760.8	7475.0	7181.9
5°	10160.9	10032.7	10049.2	9844.0	9638.8	9301.7	8808.8	8783.2	8389.3	7854.3	7310.1
7.5°	11088.0	11089.8	11038.5	10921.2	10699.6	10316.6	9757.9	9631.4	9083.6	8272.0	7456.7
10°	11040.3	11089.8	11175.9	11276.7	11344.5	11155.8	10646.4	10492.5	9779.8	8777.7	7619.8
12.5°	10406.4	10483.4	10606.1	10859.0	11267.5	11579.0	11404.9	11280.3	10586.0	9281.5	7799.3
15°	10010.7	10056.5	10124.3	10294.7	10734.4	11480.0	11930.7	11864.8	11346.3	9851.3	8000.9
17.5°	9889.8	9935.6	9957.6	10062.0	10375.3	11139.3	12137.8	12255.0	12020.5	10375.3	8204.2
20°	10010.7	10032.7	10032.7	10095.0	10340.5	10939.6	12128.6	12365.0	12573.8	11003.7	8394.8
22.5°	10327.6	10336.8	10324.0	10346.0	10529.2	10994.5	12042.5	12335.6	13020.9	11536.8	8543.2
25°	10842.5	10857.1	10772.8	10721.5	10855.3	11236.4	12090.1	12359.5	13370.8	12046.2	8642.1
27.5°	11426.9	11445.2	11342.6	11223.5	11285.8	11535.0	12277.0	12518.9	13632.8	12548.2	8704.4
30°	12143.3	12150.6	11978.4	11835.5	11795.2	11980.2	12595.8	12821.2	13958.9	13139.9	8797.8
32.5°	12876.1	12931.1	12709.4	12507.9	12440.1	12496.9	13066.7	13284.7	14347.3	13775.7	8948.1
35°	13872.8	13881.9	13616.3	13370.8	13147.3	13220.6	13669.4	13827.0	14884.1	14510.4	9160.6
37.5°	15116.8	15201.1	14834.6	14376.6	14101.8	13995.5	14398.6	14570.8	15637.1	15411.8	9481.2
40°	16498.2	16529.4	16216.1	15930.3	15428.3	15120.5	15398.9	15585.8	16566.0	16487.2	9853.1
42.5°	17366.6	17434.4	17458.2	17428.9	17051.5	16534.9	16641.1	16729.1	17665.3	17496.7	10234.2
45°	17659.8	17760.5	18101.3	18823.2	18863.5	18354.1	18106.8	18191.1	18863.5	18515.4	10598.8
47.5°	17174.3	17346.5	17974.9	19455.2	20563.7	20602.2	19856.5	19671.4	19955.4	19360.0	10862.6
50°	15919.3	15955.9	16917.8	19061.3	21360.6	22751.2	21979.9	21635.5	20992.4	19984.7	11044.0
52.5°	13977.2	14019.4	14825.5	17231.1	20869.6	24253.6	24464.3	23848.7	22045.9	20470.2	11163.1
55°	10375.3	10618.9	11505.7	13830.6	18542.9	24112.5	26439.3	26089.3	23319.2	20855.0	11350.0
57.5°	6379.4	6155.9	7207.5	9409.8	13946.1	22174.1	27049.4	27163.0	24720.8	21177.4	11663.3
60°	2935.1	2979.0	3413.2	4853.3	8501.0	17346.5	25477.4	26195.6	25495.7	21166.4	11742.0
62.5°	2022.7	1982.4	1872.4	2130.8	3876.8	10970.7	21520.0	22736.6	23942.1	20508.7	11428.7
65°	1808.3	1768.0	1555.5	1484.0	1780.8	4781.8	15644.4	17179.8	20158.8	18848.8	10648.3
67.5°	1689.2	1634.2	1414.4	1275.2	1271.5	1903.6	9224.7	11073.3	14951.9	15935.8	9226.5
70°	1564.6	1520.7	1302.6	1148.7	1082.8	1196.4	4054.5	5307.6	9708.4	11483.7	7187.4
72.5°	1440.0	1388.7	1192.7	1027.8	941.7	895.9	1553.6	2020.8	5485.4	6885.1	4406.2
75°	1258.7	1233.0	1066.3	930.7	837.3	723.7	985.7	1124.9	2623.6	3162.2	2211.4
77.5°	1101.1	1073.6	947.2	813.5	745.7	588.1	699.9	764.0	1106.6	1282.5	998.5
80°	806.1	833.6	798.8	718.2	665.1	461.7	470.9	524.0	657.7	727.4	610.1
82.5°	511.2	562.5	615.6	553.3	503.8	364.6	326.1	346.3	448.9	476.4	271.2
85°	214.4	218.0	357.3	337.1	287.6	216.2	196.0	207.0	240.0	251.0	126.4
87.5°	82.4	80.6	126.4	117.3	89.8	62.3	62.3	69.6	95.3	87.9	40.3
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°	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7	7031.7
2.5°	7055.5	6925.4	6667.1	6346.5	6111.9	5848.1	5615.4	5448.7	5386.4	5357.1	5302.1
5°	7050.0	6793.5	6258.5	5697.9	5247.2	4785.5	4395.2	4142.4	4120.4	3951.9	3935.4
7.5°	7051.8	6659.7	5807.8	4983.4	4296.3	3823.6	3501.2	3416.9	3316.1	3290.5	3303.3
10°	7057.3	6489.4	5324.1	4276.2	3611.1	3301.5	3180.6	3147.6	3151.2	3162.2	3164.1
12.5°	7064.6	6324.5	4822.1	3739.4	3226.4	3098.1	3085.3	3114.6	3145.7	3169.6	3175.1
15°	7073.8	6135.8	4333.0	3307.0	3034.0	3023.0	3065.1	3114.6	3158.6	3193.4	3198.9
17.5°	7062.8	5915.9	3922.6	3041.3	2927.7	2980.9	3050.5	3112.8	3153.1	3186.1	3189.7
20°	7037.2	5670.4	3526.8	2854.4	2861.8	2947.9	3023.0	3081.6	3125.6	3142.1	3154.9
22.5°	6938.2	5377.3	3182.4	2709.7	2783.0	2902.1	2991.8	3026.7	2977.2	2942.4	2951.5
25°	6769.7	4996.2	2861.8	2592.4	2711.5	2837.9	2929.6	2845.3	2805.0	2790.3	2797.6
27.5°	6559.0	4578.5	2619.9	2469.7	2619.9	2766.5	2740.8	2726.2	2707.9	2684.1	2689.5
30°	6331.8	4169.9	2414.7	2374.4	2521.0	2605.3	2616.3	2640.1	2619.9	2583.3	2597.9
32.5°	6121.1	3785.2	2259.0	2293.8	2451.4	2438.5	2521.0	2548.5	2455.0	2332.3	2337.8
35°	5941.6	3427.9	2141.7	2215.0	2332.3	2337.8	2420.2	2325.0	2224.2	2165.6	2169.2
37.5°	5806.0	3149.4	2064.8	2147.2	2180.2	2249.8	2205.9	2156.4	2143.6	2103.3	2105.1
40°	5725.4	2905.7	2015.3	2094.1	2088.6	2136.2	1995.2	2044.6	2063.0	2050.1	2052.0
42.5°	5644.8	2733.5	1964.0	2020.8	2019.0	1925.6	1894.4	1936.5	1984.2	1989.7	1986.0
45°	5580.6	2599.8	1910.9	1909.1	1945.7	1799.1	1790.0	1815.6	1883.4	1916.4	1914.6
47.5°	5509.2	2488.0	1830.3	1779.0	1790.0	1720.4	1705.7	1716.7	1799.1	1852.3	1866.9
50°	5419.4	2376.3	1729.5	1659.9	1614.1	1647.1	1650.7	1652.6	1735.0	1795.5	1808.3
52.5°	5347.9	2292.0	1614.1	1562.8	1507.8	1581.1	1608.6	1612.3	1661.7	1711.2	1720.4
55°	5390.1	2244.3	1500.5	1463.9	1414.4	1513.3	1566.5	1573.8	1584.8	1621.4	1626.9
57.5°	5516.5	2255.3	1408.9	1361.3	1324.6	1432.7	1522.5	1528.0	1520.7	1564.6	1572.0
60°	5555.0	2249.8	1341.1	1247.7	1225.7	1346.6	1458.4	1469.4	1467.5	1531.6	1544.5
62.5°	5393.8	2180.2	1273.3	1152.4	1137.7	1258.7	1368.6	1412.6	1421.7	1513.3	1529.8
65°	5014.5	2037.3	1183.5	1051.6	1051.6	1165.2	1282.5	1342.9	1368.6	1491.3	1509.7
67.5°	4514.3	1868.8	1091.9	965.5	961.9	1075.5	1190.9	1253.2	1293.5	1460.2	1471.2
70°	3746.7	1641.6	978.4	872.1	872.1	974.7	1079.1	1154.2	1212.9	1401.6	1401.6
72.5°	2566.8	1364.9	840.9	765.8	767.7	862.9	969.2	1053.5	1123.1	1284.3	1288.0
75°	1623.3	1066.3	690.7	652.2	659.6	749.3	859.3	947.2	1086.4	1269.7	1275.2
77.5°	862.9	749.3	549.6	540.5	549.6	632.1	754.8	875.8	1090.1	1101.1	1082.8
80°	558.8	531.3	434.2	415.9	419.6	509.3	672.4	831.8	875.8	886.7	846.4
82.5°	304.1	337.1	307.8	289.5	289.5	397.6	573.5	661.4	628.4	522.2	498.3
85°	130.1	157.6	159.4	139.2	133.7	245.5	384.7	360.9	335.3	320.6	317.0
87.5°	36.6	51.3	51.3	38.5	29.3	67.8	76.9	22.0	0.0	1.8	3.7
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)