

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: P527682

Luminaire Tested: **GALN-SA2D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527682
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-SA2D-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11740 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

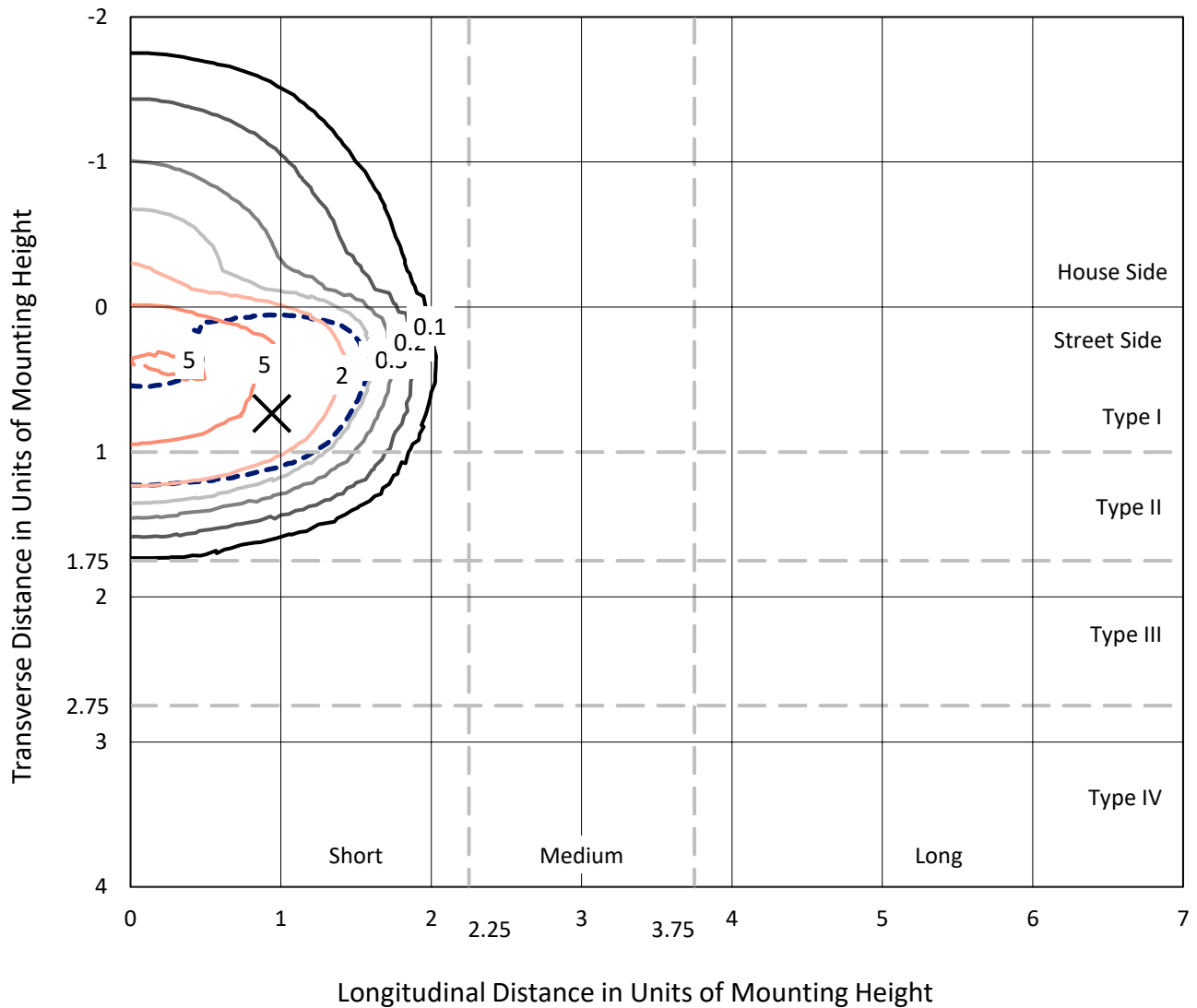
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

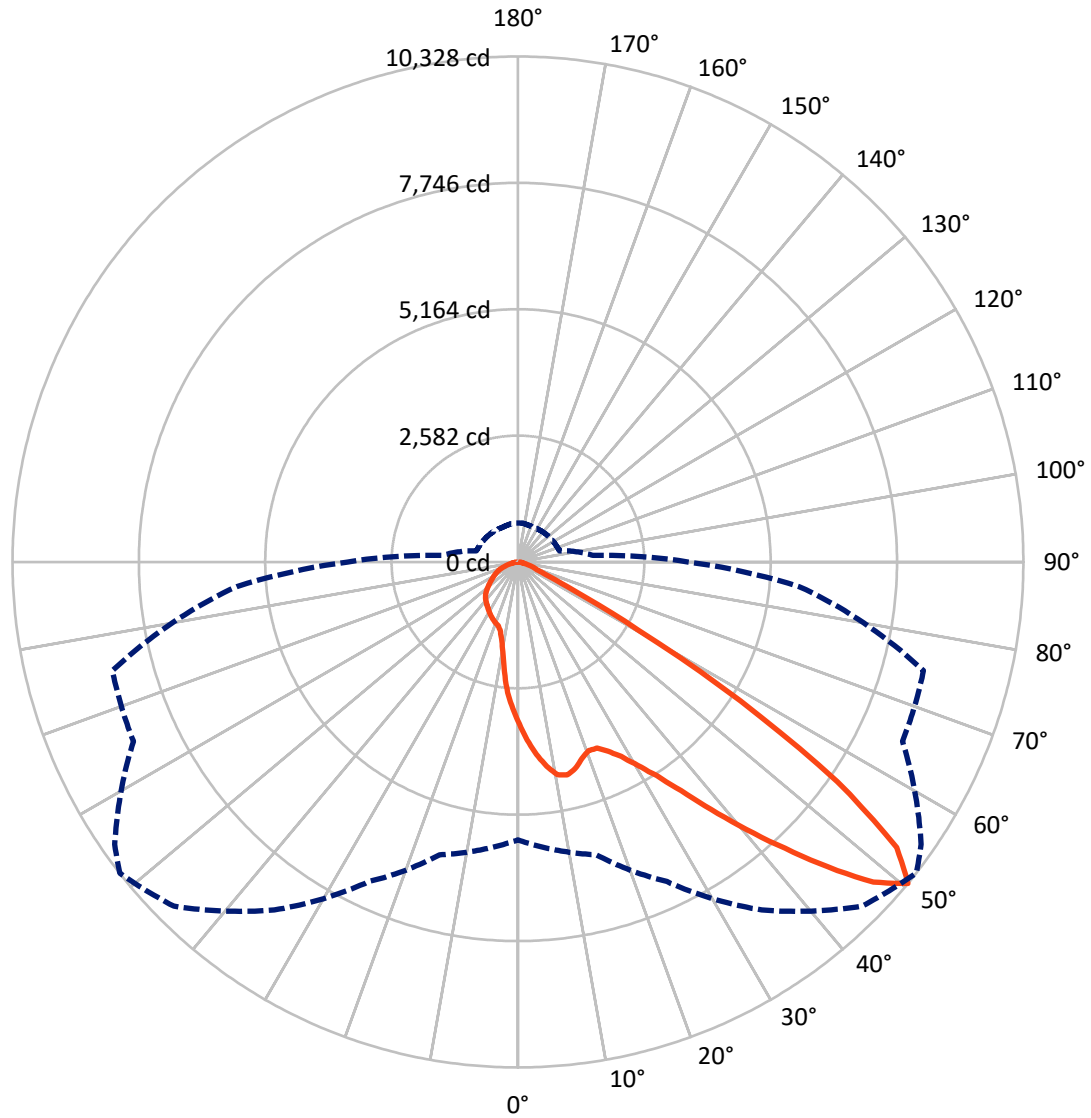
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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
House Side	Lumens	2206.8	0.0	2206.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9533.2	0.0	9533.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	11740.0	0.0	11740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	2.6
10°-20°	817.5	7.0
20°-30°	1377.1	11.7
30°-40°	2310.9	19.7
40°-50°	3535.1	30.1
50°-60°	2577.3	22.0
60°-70°	573.6	4.9
70°-80°	206.9	1.8
80°-90°	36.6	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°	11740.0	100.0
0°-180°	11740.0	100.0

Coefficient of Utilization



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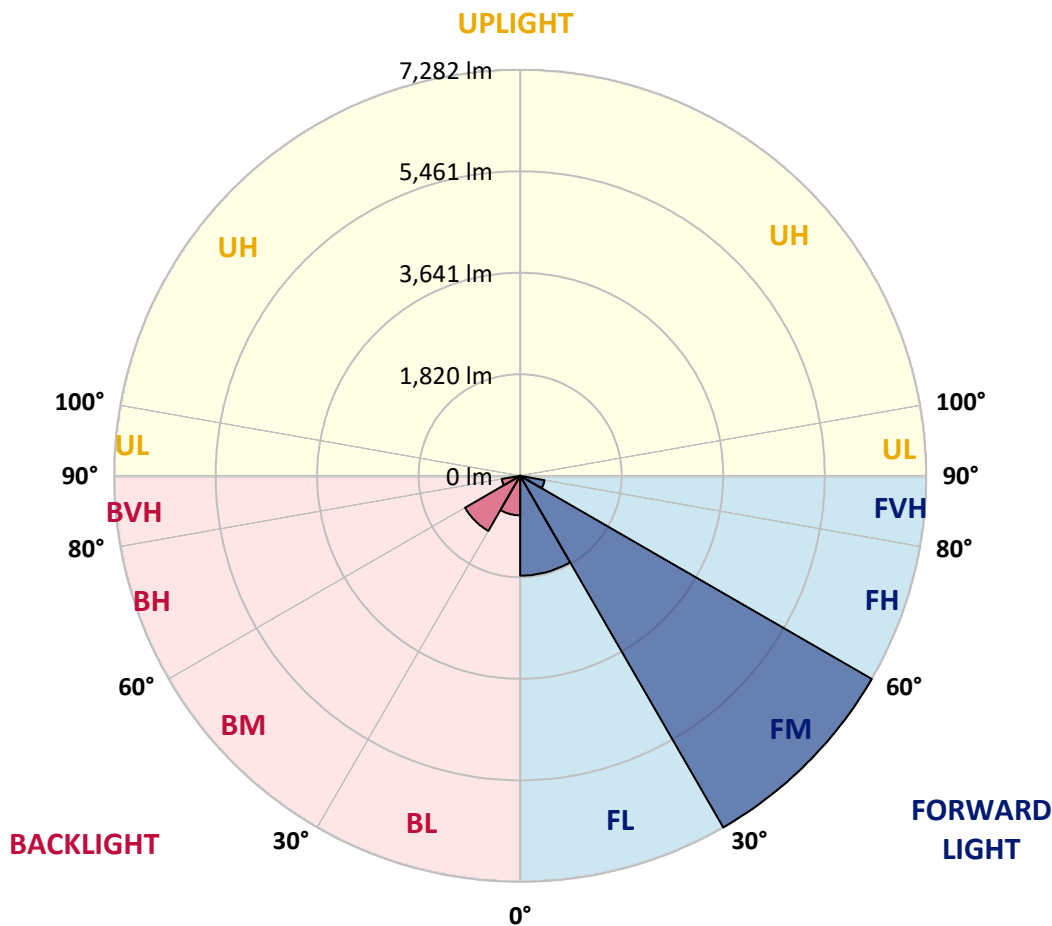
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.8	15.3			
FM (30°-60°)	7281.7	62.0			
FH (60°-80°)	444.3	3.8			G0/660
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	708.9	6.0	B2/1000		
BM (30°-60°)	1141.5	9.7	B2/2500		
BH (60°-80°)	336.2	2.9	B1/500		G1/500
BVH (80°-90°)	20.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3
2.5°	3896.5	3821.5	3830.0	3776.2	3718.2	3701.2	3641.8	3585.2	3542.8	3452.2	3368.7
5°	4258.7	4236.0	4202.1	4159.6	4115.8	4008.2	3947.4	3876.7	3721.0	3581.0	3442.3
7.5°	4311.0	4306.8	4325.2	4325.2	4340.7	4299.7	4213.4	4163.9	3998.3	3770.5	3513.0
10°	3943.2	3955.9	4045.0	4161.0	4322.3	4434.1	4420.0	4407.2	4226.1	3914.9	3596.5
12.5°	3650.3	3622.0	3674.3	3773.4	4015.3	4285.6	4468.1	4469.5	4422.8	4145.5	3657.4
15°	3484.8	3504.6	3518.7	3565.4	3747.9	4060.6	4381.8	4476.6	4681.7	4308.2	3753.6
17.5°	3590.9	3524.4	3521.5	3532.9	3626.2	3861.1	4221.9	4384.6	4823.2	4517.6	3872.4
20°	3729.5	3728.1	3688.5	3674.3	3672.9	3882.3	4117.2	4337.9	4898.2	4789.2	3992.7
22.5°	3972.9	3972.9	3907.8	3876.7	3810.2	3981.4	4131.3	4281.3	5022.7	4976.0	4050.7
25°	4380.3	4313.8	4202.1	4125.7	4087.5	4148.3	4281.3	4415.7	5131.6	5174.1	4170.9
27.5°	4756.7	4652.0	4596.8	4465.2	4414.3	4378.9	4500.6	4636.4	5259.0	5482.5	4236.0
30°	5184.0	5165.6	5066.5	4896.8	4770.8	4705.8	4817.5	4951.9	5492.4	5798.0	4386.0
32.5°	5948.0	5781.0	5646.6	5438.6	5233.5	5094.8	5205.2	5294.3	5880.1	6127.7	4550.1
35°	6772.8	6719.1	6487.0	6112.1	5798.0	5673.5	5738.6	5805.1	6331.4	6631.4	4826.0
37.5°	7583.5	7510.0	7319.0	7003.5	6621.5	6368.2	6414.9	6492.7	6837.9	7310.5	5162.8
40°	8166.5	8075.9	7979.7	7933.0	7553.8	7207.2	7180.3	7200.1	7522.7	7947.2	5536.3
42.5°	8208.9	8320.7	8350.4	8538.6	8449.4	8165.0	7999.5	8003.8	8176.4	8576.8	5914.0
45°	8119.8	8016.5	8235.8	8749.4	9043.7	9176.7	8897.9	8862.6	8581.0	8941.8	6102.2
47.5°	7184.6	7212.9	7583.5	8395.7	9246.0	9840.2	9775.1	9657.7	8797.5	8929.1	6072.5
50°	5679.2	5850.4	6194.2	7205.8	8680.0	9944.9	10328.3	10056.7	8668.7	8578.2	5769.7
52.5°	3781.9	3852.6	4079.0	5384.9	6979.4	8889.4	9691.7	9753.9	8549.9	8118.4	5386.3
55°	1683.7	1678.0	1996.3	2812.7	4378.9	6764.4	7918.9	8298.0	8092.9	7650.0	5012.8
57.5°	713.1	737.1	867.3	1215.3	2153.4	4081.8	5365.1	5697.6	6223.9	6281.9	3845.5
60°	482.5	485.3	520.7	608.4	901.3	1917.1	2814.1	3213.1	3589.4	3564.0	2040.2
62.5°	379.2	389.1	416.0	451.3	534.8	870.1	1259.2	1481.3	1505.4	1266.3	773.9
65°	324.0	325.4	352.3	382.0	418.8	506.5	607.0	618.3	625.4	602.7	568.8
67.5°	267.4	270.2	291.5	325.4	359.4	387.7	416.0	430.1	462.7	526.3	517.8
70°	212.2	216.5	234.9	263.2	294.3	311.3	346.6	359.4	389.1	438.6	458.4
72.5°	161.3	162.7	178.3	198.1	226.4	243.4	273.1	287.2	307.0	349.5	367.9
75°	116.0	120.3	131.6	141.5	145.7	157.0	185.3	200.9	229.2	247.6	249.0
77.5°	60.8	63.7	66.5	66.5	80.6	101.9	120.3	128.8	148.6	162.7	155.6
80°	24.1	25.5	32.5	43.9	56.6	73.6	86.3	90.5	107.5	116.0	120.3
82.5°	14.1	15.6	21.2	31.1	41.0	52.3	62.3	66.5	77.8	87.7	90.5
85°	7.1	8.5	12.7	19.8	26.9	32.5	31.1	29.7	29.7	28.3	29.7
87.5°	2.8	2.8	4.2	4.2	4.2	5.7	7.1	7.1	7.1	8.5	8.5
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°	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3
2.5°	3313.6	3257.0	3204.6	3108.4	3003.7	2974.0	2852.3	2808.5	2777.3	2740.5	2729.2
5°	3330.5	3255.5	3087.2	2893.3	2739.1	2541.1	2410.9	2270.8	2169.0	2143.5	2136.4
7.5°	3365.9	3237.2	2947.1	2654.2	2338.7	2069.9	1864.8	1754.4	1656.8	1651.1	1641.2
10°	3405.5	3182.0	2794.3	2334.5	1931.3	1682.2	1559.2	1511.0	1487.0	1481.3	1478.5
12.5°	3438.1	3170.7	2623.1	2023.2	1642.6	1492.7	1455.9	1451.6	1461.5	1464.4	1470.0
15°	3452.2	3125.4	2416.5	1744.5	1462.9	1407.8	1423.3	1440.3	1447.4	1465.8	1451.6
17.5°	3479.1	3067.4	2161.9	1523.8	1362.5	1372.4	1399.3	1419.1	1430.4	1443.1	1424.7
20°	3493.2	3015.0	1922.8	1392.2	1327.1	1345.5	1382.3	1397.9	1412.0	1417.7	1396.4
22.5°	3480.5	2907.5	1712.0	1286.1	1293.2	1317.2	1349.8	1366.7	1358.2	1335.6	1322.9
25°	3446.6	2756.1	1492.7	1218.2	1245.1	1287.5	1313.0	1300.2	1284.7	1271.9	1267.7
27.5°	3445.1	2570.8	1334.2	1155.9	1204.0	1262.0	1253.5	1242.2	1249.3	1239.4	1228.1
30°	3452.2	2391.1	1204.0	1120.6	1174.3	1202.6	1212.5	1201.2	1209.7	1191.3	1197.0
32.5°	3415.4	2215.6	1119.1	1079.5	1138.9	1137.5	1170.1	1178.6	1158.8	1120.6	1126.2
35°	3431.0	2074.2	1047.0	1061.1	1099.3	1099.3	1124.8	1114.9	1062.5	1039.9	1045.6
37.5°	3538.5	1935.5	1011.6	1035.7	1061.1	1072.4	1064.0	1021.5	1008.8	1008.8	1011.6
40°	3640.4	1816.7	990.4	1030.0	1025.8	1032.8	970.6	974.8	974.8	976.2	969.2
42.5°	3730.9	1736.0	973.4	996.0	1003.1	966.3	928.1	923.9	933.8	932.4	926.7
45°	3763.5	1669.5	949.4	957.8	963.5	902.7	884.3	875.8	887.1	891.3	897.0
47.5°	3639.0	1614.3	922.5	905.5	894.2	854.6	830.5	814.9	829.1	853.1	858.8
50°	3479.1	1542.2	880.0	847.5	823.4	806.5	789.5	773.9	783.8	800.8	796.6
52.5°	3242.8	1429.0	826.3	792.3	751.3	755.5	740.0	731.5	737.1	737.1	732.9
55°	2906.1	1174.3	735.7	711.7	677.7	689.0	691.9	680.5	669.2	679.1	670.6
57.5°	1983.6	829.1	656.5	656.5	622.5	638.1	636.7	609.8	582.9	585.7	580.1
60°	1147.4	660.7	605.6	599.9	564.5	577.3	580.1	561.7	520.7	523.5	517.8
62.5°	652.2	564.5	529.2	520.7	513.6	524.9	524.9	500.9	465.5	468.3	462.7
65°	554.6	523.5	472.6	471.1	468.3	471.1	459.8	434.4	403.2	390.5	391.9
67.5°	503.7	483.9	434.4	421.6	413.1	411.7	390.5	366.4	352.3	341.0	339.6
70°	441.4	425.9	389.1	372.1	363.6	343.8	322.6	307.0	287.2	281.6	287.2
72.5°	349.5	348.1	333.9	315.5	297.1	281.6	263.2	241.9	223.5	219.3	209.4
75°	241.9	244.8	247.6	244.8	229.2	209.4	188.2	171.2	148.6	135.8	133.0
77.5°	158.5	162.7	167.0	161.3	151.4	133.0	118.8	97.6	80.6	70.7	69.3
80°	116.0	121.7	124.5	120.3	108.9	94.8	79.2	62.3	49.5	41.0	41.0
82.5°	89.1	94.8	97.6	90.5	79.2	67.9	56.6	43.9	34.0	26.9	25.5
85°	31.1	29.7	35.4	36.8	43.9	41.0	34.0	25.5	19.8	14.1	12.7
87.5°	8.5	8.5	9.9	9.9	8.5	7.1	7.1	7.1	5.7	4.2	4.2
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)