

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: P528154

Luminaire Tested: **GALN-SA3B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12041 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

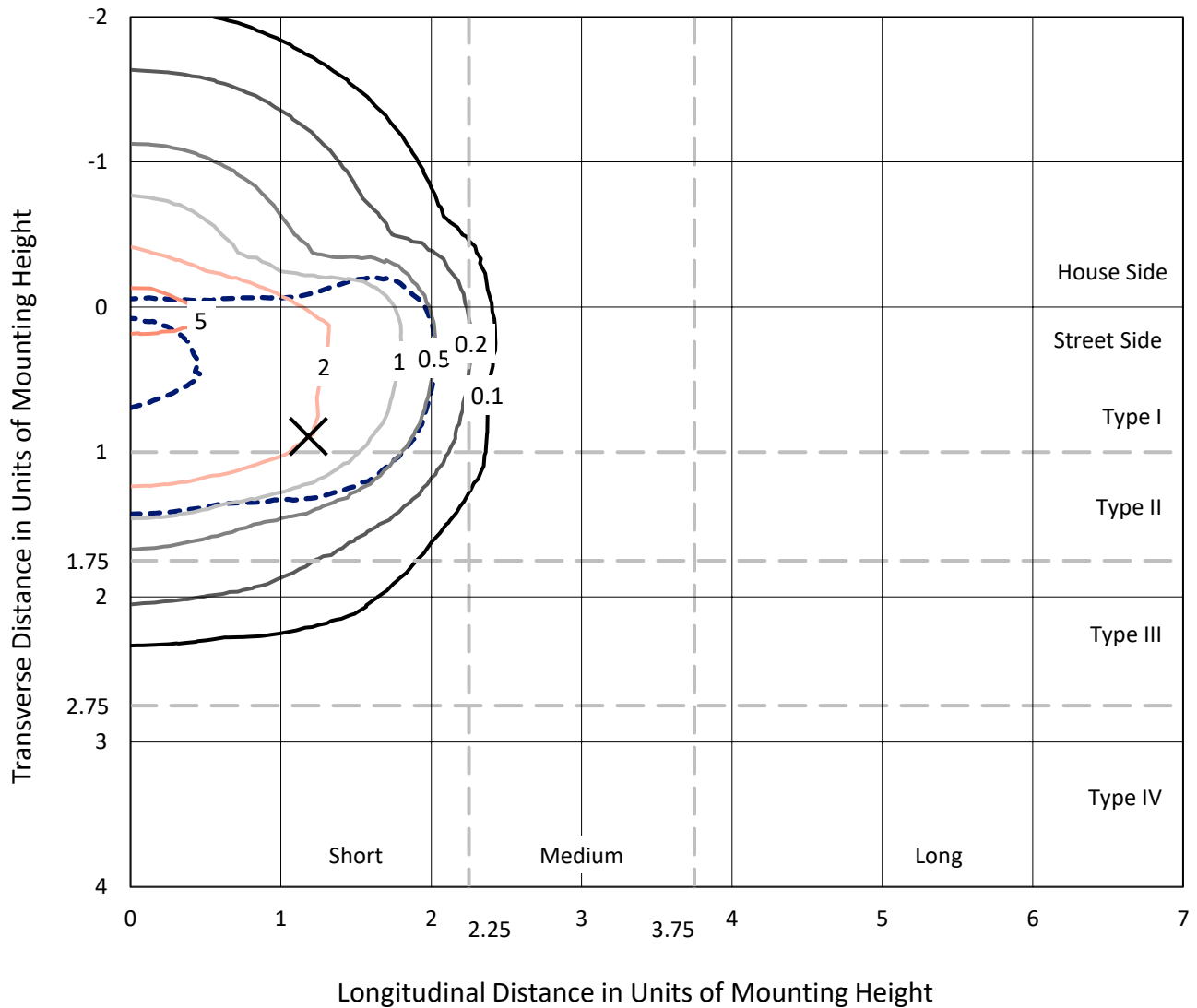
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

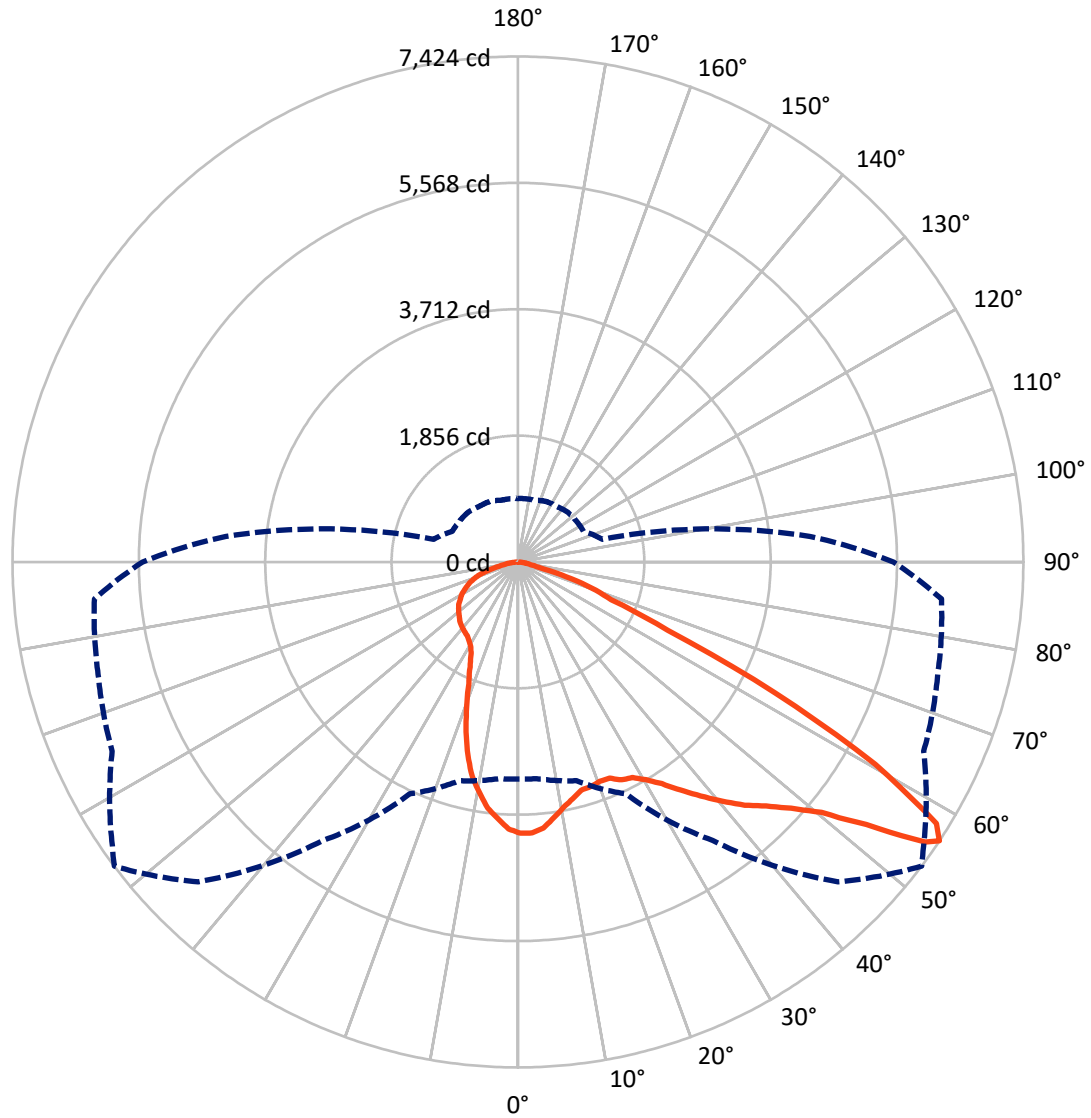
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3513.8	0.0	3513.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	8527.2	0.0	8527.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	12041.0	0.0	12041.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.7	2.9
10°-20°	880.8	7.3
20°-30°	1298.8	10.8
30°-40°	1855.8	15.4
40°-50°	2554.2	21.2
50°-60°	3018.4	25.1
60°-70°	1608.6	13.4
70°-80°	408.1	3.4
80°-90°	63.6	0.5
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°	12041.0	100.0
0°-180°	12041.0	100.0

**Coefficient of Utilization**

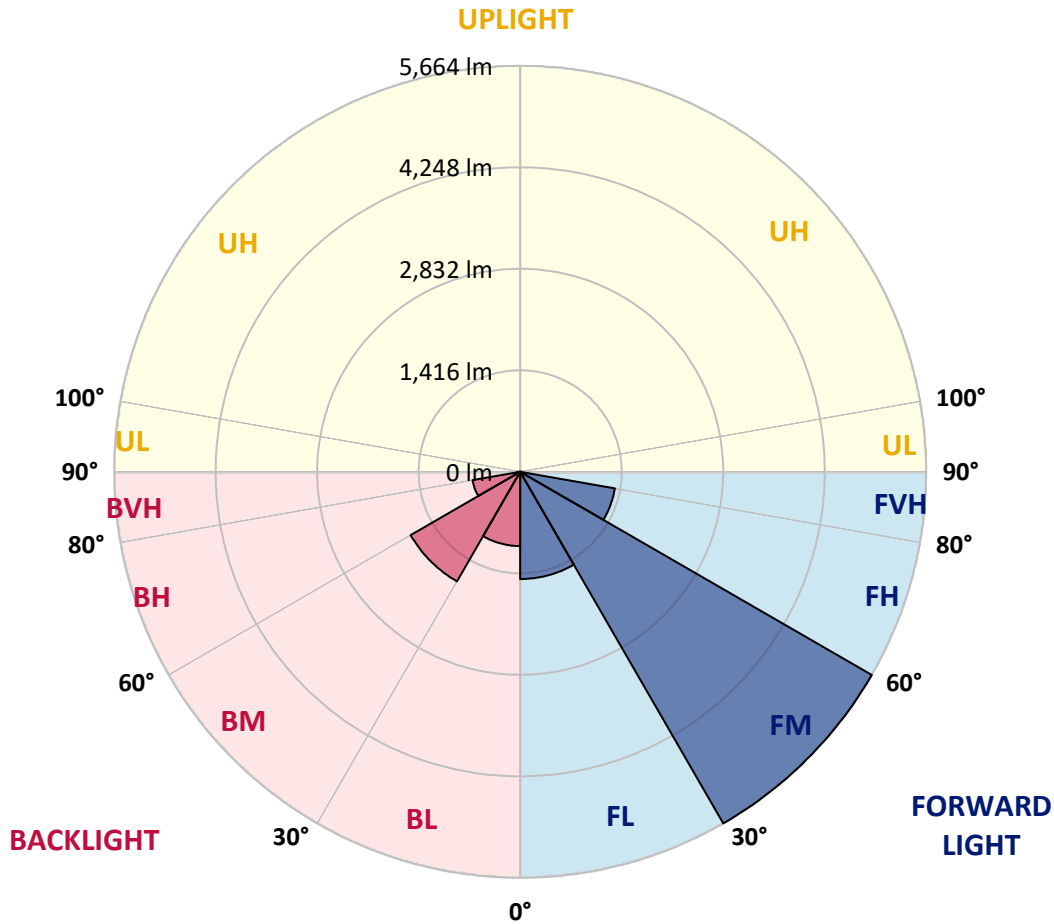


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.9	12.4			
FM (30°-60°)	5663.9	47.0			
FH (60°-80°)	1341.8	11.1			G1/1800
FVH (80°-90°)	25.6	0.2			G1/100
BL (0°-30°)	1036.4	8.6	B3/2500		
BM (30°-60°)	1764.5	14.7	B2/2500		
BH (60°-80°)	674.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	38.1	0.3			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°	53°	55°	65°	75°	85°
0°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
2.5°	3934.2	3900.2	3920.3	3912.6	3975.9	3994.4	3985.2	3992.9	4028.4	4011.4	3975.9
5°	3676.3	3724.1	3733.4	3756.6	3793.6	3866.2	3923.4	3938.8	3955.8	4034.6	4026.9
7.5°	3441.5	3473.9	3456.9	3524.9	3605.2	3722.6	3792.1	3804.5	3960.5	4003.7	4036.2
10°	3293.2	3260.7	3338.0	3356.5	3447.6	3582.0	3665.4	3716.4	3858.5	4030.0	4050.1
12.5°	3155.7	3144.9	3191.2	3243.8	3345.7	3484.7	3569.7	3589.8	3809.1	3989.8	4084.0
15°	3053.8	3041.4	3087.7	3126.4	3245.3	3368.9	3477.0	3534.1	3755.0	3966.6	4054.7
17.5°	2973.4	2971.9	2998.2	3067.7	3189.7	3293.2	3467.7	3470.8	3727.2	4002.2	4079.4
20°	2968.8	2967.3	2971.9	3049.1	3160.3	3287.0	3438.4	3466.2	3727.2	3977.5	4080.9
22.5°	3007.4	2982.7	3010.5	3059.9	3140.3	3297.8	3449.2	3511.0	3816.8	4099.5	4150.5
25°	3069.2	3075.4	3090.8	3107.8	3154.2	3322.5	3545.0	3595.9	3921.9	4204.5	4246.2
27.5°	3182.0	3178.9	3185.1	3194.3	3234.5	3345.7	3583.6	3714.9	4141.2	4391.4	4349.7
30°	3347.2	3336.4	3361.1	3393.6	3356.5	3419.8	3711.8	3810.6	4345.1	4579.9	4465.6
32.5°	3497.1	3537.2	3583.6	3597.5	3552.7	3565.0	3881.7	3982.1	4515.0	4811.6	4607.7
35°	3684.0	3716.4	3778.2	3821.4	3813.7	3776.7	4113.4	4246.2	4760.6	4981.5	4757.5
37.5°	3866.2	3904.9	4006.8	4135.0	4064.0	4047.0	4360.5	4470.2	4836.3	5072.6	4867.2
40°	4159.7	4158.2	4334.3	4400.7	4464.0	4434.7	4616.9	4654.0	4876.4	5052.5	4870.3
42.5°	4504.2	4482.6	4661.7	4765.2	4847.1	4850.2	4884.2	4871.8	4895.0	4950.6	4837.8
45°	4831.6	4878.0	5058.7	5244.1	5325.9	5335.2	5109.7	5086.5	4927.4	4921.2	4776.0
47.5°	5231.7	5242.5	5390.8	5634.9	5824.9	5760.0	5401.6	5350.6	5069.5	5117.4	4879.5
50°	5254.9	5335.2	5468.0	5755.3	6339.2	6322.2	5780.1	5684.3	5298.1	5395.4	5168.4
52.5°	4769.9	4751.3	4908.9	5378.5	6300.6	6881.4	6407.2	6178.6	5789.3	5715.2	5636.4
55°	3634.5	3677.8	3816.8	4291.0	5471.1	6889.1	7261.4	7074.5	6314.5	6187.8	6096.7
56°	3188.1	3194.3	3325.6	3758.1	4992.3	6643.5	7423.6	7272.2	6575.6	6382.5	6243.5
57.5°	2642.9	2607.4	2675.3	2911.7	4213.8	6124.5	7245.9	7394.2	6881.4	6592.5	6399.5
60°	2080.6	2072.9	2045.1	2088.4	2663.0	4613.9	6031.8	6365.5	6850.5	6394.8	6129.1
62.5°	1699.1	1660.5	1716.1	1777.9	1850.5	2862.2	4238.5	4434.7	5438.7	5105.0	4604.6
65°	1317.6	1299.0	1368.6	1569.4	1612.6	1818.0	2414.3	2565.7	3211.3	3154.2	2777.3
67.5°	906.7	909.8	970.0	1275.9	1495.2	1476.7	1478.2	1557.0	1675.9	1245.0	1084.3
70°	574.6	573.1	605.5	821.8	1203.3	1215.6	1153.8	1130.7	1072.0	648.8	687.4
72.5°	369.2	358.4	375.3	454.1	622.5	719.8	741.4	755.3	620.9	509.7	553.0
75°	208.5	197.7	191.5	211.6	245.6	284.2	312.0	321.3	359.9	386.2	409.3
77.5°	63.3	57.2	69.5	92.7	122.0	163.7	199.3	205.4	242.5	273.4	296.6
80°	27.8	30.9	43.3	61.8	86.5	115.8	140.6	149.8	174.5	197.7	203.9
82.5°	17.0	18.5	29.3	41.7	60.2	81.9	100.4	103.5	128.2	146.7	151.4
85°	6.2	7.7	15.4	24.7	38.6	52.5	52.5	57.2	52.5	52.5	57.2
87.5°	0.0	0.0	1.5	3.1	3.1	4.6	6.2	6.2	7.7	9.3	10.8
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°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
2.5°	3994.4	3986.7	3974.4	3929.6	3924.9	3911.0	3833.8	3821.4	3833.8	3796.7	3799.8
5°	3986.7	4009.9	3917.2	3872.4	3789.0	3728.8	3659.3	3623.7	3560.4	3520.2	3565.0
7.5°	4020.7	4011.4	3895.6	3798.3	3673.2	3520.2	3398.2	3328.7	3217.5	3186.6	3209.8
10°	4008.4	3958.9	3823.0	3694.8	3458.5	3324.1	3126.4	2934.8	2829.8	2775.7	2768.0
12.5°	3991.4	3977.5	3750.4	3529.5	3280.8	2998.2	2720.1	2539.4	2367.9	2293.8	2304.6
15°	4011.4	3894.0	3614.5	3334.9	3004.3	2633.6	2334.0	2100.7	1981.8	1933.9	1933.9
17.5°	4002.2	3853.9	3549.6	3117.1	2698.5	2259.8	1930.8	1790.2	1740.8	1740.8	1754.7
20°	4006.8	3880.1	3418.3	2899.3	2337.0	1903.0	1663.6	1612.6	1634.2	1642.0	1649.7
22.5°	4033.1	3793.6	3290.1	2659.9	2001.9	1628.1	1510.7	1512.2	1550.8	1592.5	1584.8
25°	4065.5	3759.7	3134.1	2422.0	1745.4	1493.7	1456.6	1452.0	1481.3	1502.9	1506.0
27.5°	4037.7	3701.0	2975.0	2125.4	1535.4	1404.1	1396.4	1399.4	1408.7	1452.0	1438.1
30°	4128.8	3718.0	2775.7	1876.7	1419.5	1374.7	1365.5	1360.8	1374.7	1387.1	1376.3
32.5°	4241.6	3657.7	2627.4	1637.3	1362.4	1353.1	1334.6	1328.4	1336.1	1323.8	1329.9
35°	4291.0	3646.9	2434.4	1465.9	1317.6	1309.9	1299.0	1297.5	1299.0	1288.2	1279.0
37.5°	4318.8	3697.9	2213.5	1387.1	1289.8	1297.5	1272.8	1269.7	1241.9	1248.1	1252.7
40°	4366.7	3619.1	2034.3	1311.4	1272.8	1257.3	1235.7	1231.1	1212.5	1201.7	1212.5
42.5°	4297.2	3595.9	1858.2	1279.0	1248.1	1231.1	1215.6	1189.4	1183.2	1173.9	1167.8
45°	4241.6	3463.1	1700.7	1238.8	1218.7	1209.5	1180.1	1152.3	1129.1	1138.4	1124.5
47.5°	4283.3	3416.8	1544.6	1204.8	1178.6	1167.8	1138.4	1116.8	1093.6	1082.8	1079.7
50°	4450.1	3503.3	1413.3	1180.1	1144.6	1138.4	1099.8	1075.1	1053.4	1045.7	1048.8
52.5°	4848.6	3739.6	1323.8	1129.1	1112.1	1084.3	1062.7	1031.8	1017.9	993.2	1008.7
55°	5353.7	4124.2	1300.6	1081.3	1072.0	1047.3	1017.9	994.8	968.5	948.4	943.8
56°	5515.9	4308.0	1282.1	1062.7	1047.3	1033.4	994.8	980.8	939.1	934.5	931.4
57.5°	5647.2	4470.2	1285.1	1027.2	1011.7	999.4	976.2	942.2	914.4	897.4	905.2
60°	5350.6	4184.4	1226.4	973.1	970.0	946.9	914.4	899.0	865.0	844.9	840.3
62.5°	3977.5	2840.6	994.8	903.6	902.1	877.4	840.3	823.3	817.1	789.3	789.3
65°	2290.7	1781.0	860.4	846.5	834.1	809.4	772.3	758.4	743.0	733.7	726.0
67.5°	977.8	923.7	781.6	780.0	766.1	735.3	698.2	676.6	656.5	637.9	647.2
70°	709.0	719.8	705.9	698.2	681.2	642.6	610.1	583.9	553.0	540.6	549.9
72.5°	562.3	585.4	605.5	607.0	587.0	542.2	506.6	471.1	437.1	420.1	427.9
75°	426.3	441.8	461.8	466.5	437.1	406.2	372.3	335.2	308.9	288.8	291.9
77.5°	307.4	304.3	322.8	319.7	305.8	284.2	253.3	219.3	190.0	171.5	173.0
80°	210.1	214.7	225.5	224.0	207.0	193.1	169.9	142.1	120.5	105.0	101.9
82.5°	146.7	154.5	163.7	156.0	142.1	128.2	111.2	91.1	74.1	61.8	58.7
85°	52.5	60.2	69.5	74.1	78.8	75.7	63.3	51.0	37.1	30.9	29.3
87.5°	10.8	12.4	13.9	13.9	13.9	12.4	10.8	10.8	9.3	4.6	4.6
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)