

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: P533064

Luminaire Tested: **GALN-SA8C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533064
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-SA8C-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 42842 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

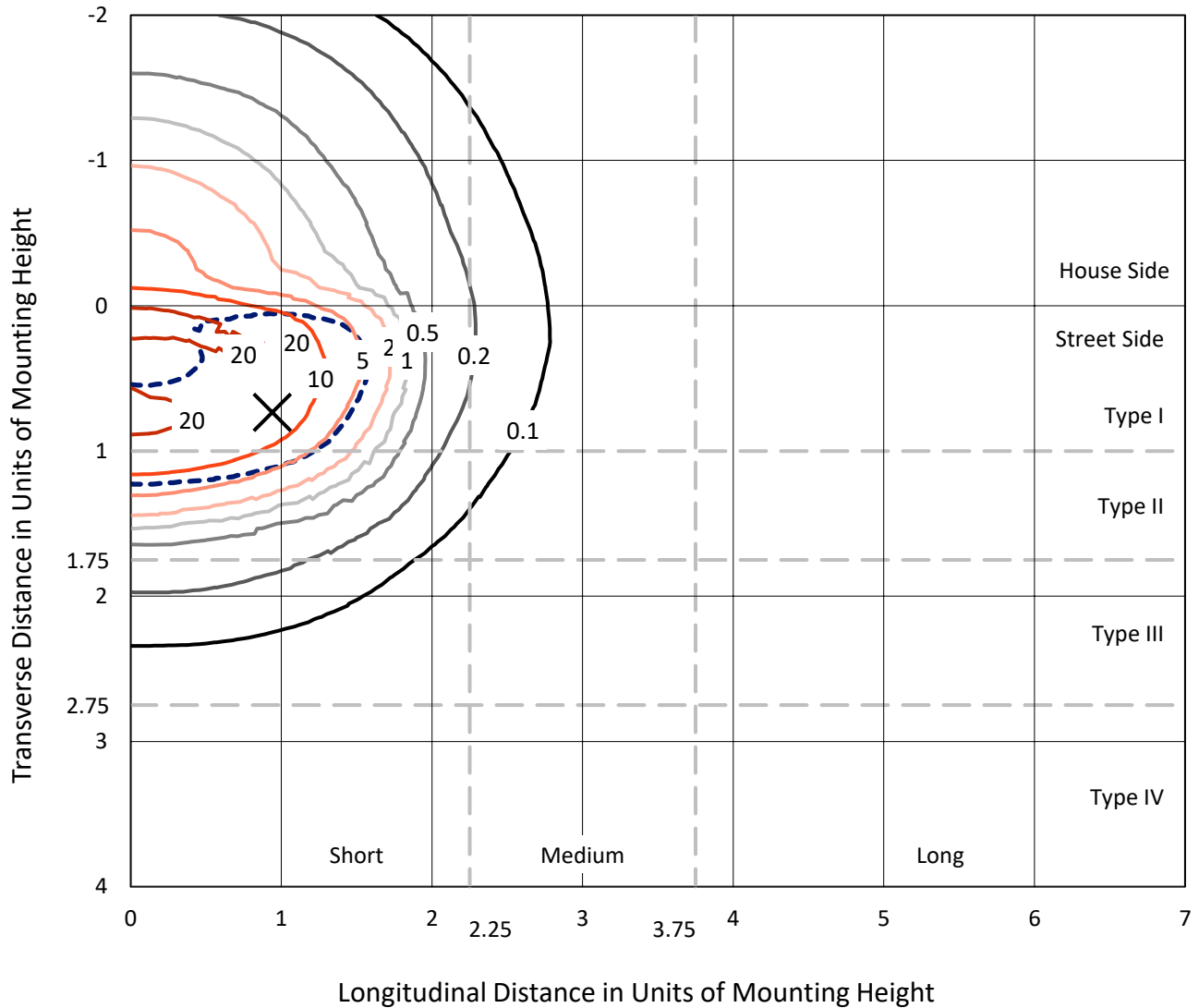
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

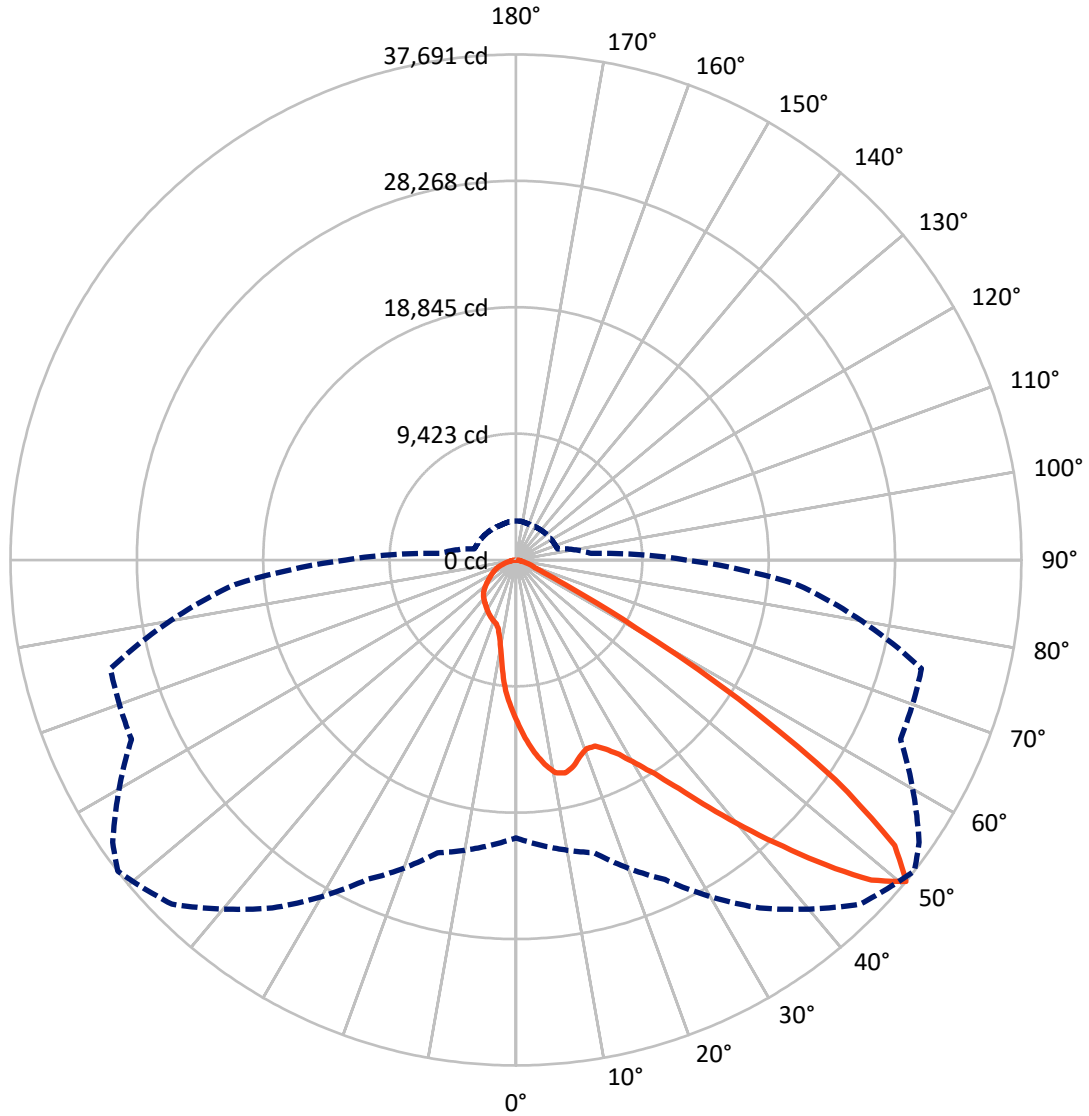
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc
 Type II - Short - N/A

REPORT NUMBER: P533064
CATALOG NUMBER: GALN-SA8C-727-U-AFL-GRSWH

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	8053.3	0.0	8053.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34788.7	0.0	34788.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	42842.0	0.0	42842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1113.1	2.6
10°-20°	2983.3	7.0
20°-30°	5025.3	11.7
30°-40°	8432.9	19.7
40°-50°	12900.3	30.1
50°-60°	9405.3	22.0
60°-70°	2093.2	4.9
70°-80°	755.0	1.8
80°-90°	133.6	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°	42842.0	100.0
0°-180°	42842.0	100.0

Coefficient of Utilization

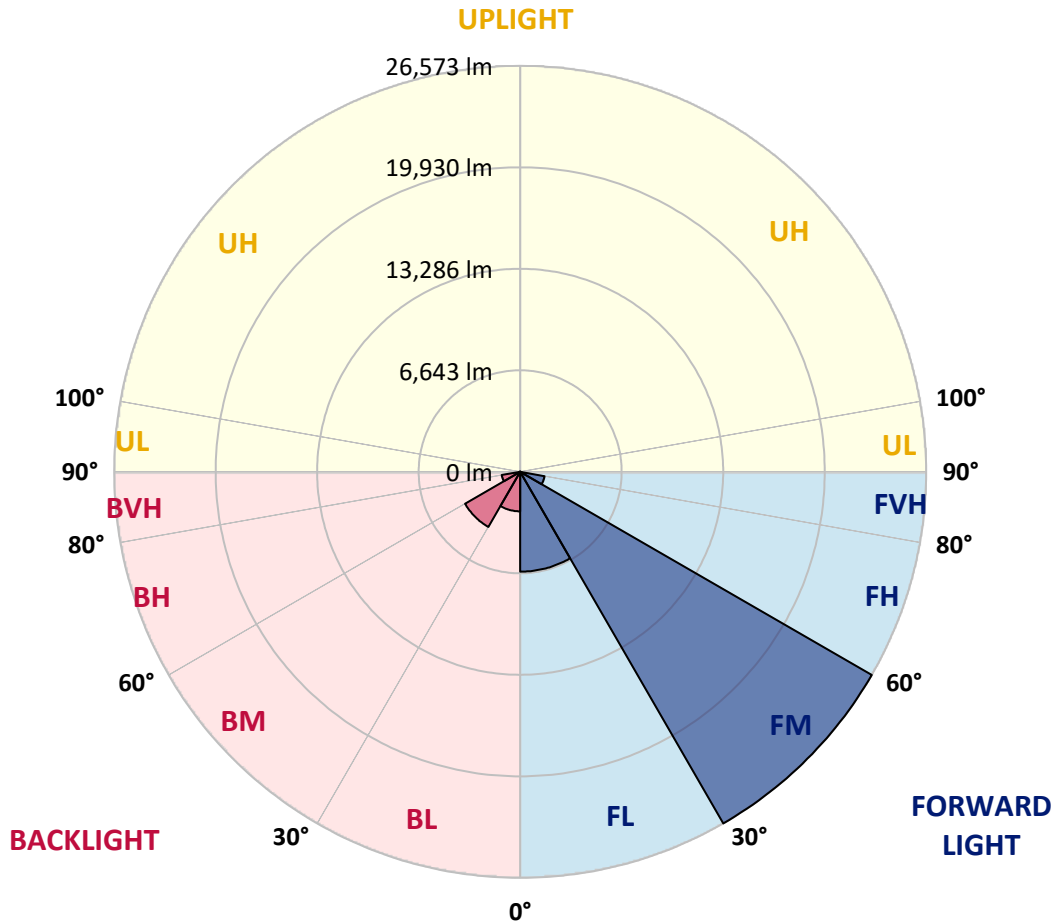


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6534.9	15.3			
FM (30°-60°)	26572.8	62.0			
FH (60°-80°)	1621.2	3.8			G1/1800
FVH (80°-90°)	59.9	0.1			G1/100
BL (0°-30°)	2586.9	6.0	B4/5000		
BM (30°-60°)	4165.7	9.7	B3/5000		
BH (60°-80°)	1226.9	2.9	B3/2500		G3/2500
BVH (80°-90°)	73.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4
2.5°	14219.1	13945.5	13976.5	13780.3	13568.6	13506.6	13289.8	13083.3	12928.4	12597.9	12293.3
5°	15540.9	15458.3	15334.4	15179.5	15019.4	14627.0	14405.0	14146.8	13578.9	13067.8	12561.8
7.5°	15731.9	15716.4	15783.5	15783.5	15840.3	15690.6	15375.7	15195.0	14590.9	13759.6	12819.9
10°	14389.5	14436.0	14761.3	15184.6	15773.2	16181.1	16129.5	16083.0	15422.1	14286.2	13124.6
12.5°	13320.8	13217.5	13408.5	13769.9	14652.8	15639.0	16305.0	16310.2	16139.8	15127.8	13346.6
15°	12716.7	12789.0	12840.6	13011.0	13677.0	14818.0	15990.1	16336.0	17084.6	15721.6	13697.7
17.5°	13103.9	12861.2	12850.9	12892.2	13233.0	14090.1	15406.6	16000.4	17600.9	16485.7	14131.4
20°	13609.9	13604.7	13460.2	13408.5	13403.4	14167.5	15024.6	15830.0	17874.6	17477.0	14570.2
22.5°	14497.9	14497.9	14260.4	14146.8	13904.2	14528.9	15076.2	15623.5	18328.9	18158.6	14781.9
25°	15984.9	15742.2	15334.4	15055.5	14916.1	15138.2	15623.5	16114.0	18726.5	18881.4	15220.8
27.5°	17358.3	16976.2	16774.9	16294.7	16108.8	15979.7	16423.8	16919.4	19191.2	20006.9	15458.3
30°	18917.5	18850.4	18489.0	17869.4	17409.9	17172.4	17580.3	18070.8	20043.1	21158.3	16005.6
32.5°	21705.6	21096.4	20605.9	19846.9	19098.2	18592.3	18995.0	19320.3	21457.8	22361.3	16604.5
35°	24715.7	24519.5	23672.7	22304.5	21158.3	20704.0	20941.5	21184.1	23104.8	24199.4	17611.3
37.5°	27674.1	27405.6	26708.6	25557.3	24163.2	23239.0	23409.4	23693.4	24953.2	26677.6	18840.1
40°	29801.3	29470.9	29119.8	28949.4	27565.7	26300.7	26202.6	26274.9	27452.1	29001.0	20203.1
42.5°	29956.2	30364.1	30472.5	31159.2	30833.9	29796.1	29192.1	29207.6	29837.5	31298.6	21581.7
45°	29630.9	29254.0	30054.3	31928.5	33002.4	33487.8	32470.6	32341.5	31314.1	32630.7	22268.4
47.5°	26218.1	26321.4	27674.1	30637.7	33740.7	35909.2	35671.7	35243.2	32104.0	32584.2	22159.9
50°	20724.6	21349.3	22604.0	26295.6	31675.5	36291.3	37690.5	36699.2	31634.2	31303.8	21055.0
52.5°	13800.9	14059.1	14885.2	19650.7	25469.5	32439.6	35367.1	35594.3	31200.5	29625.8	19655.9
55°	6144.1	6123.4	7285.1	10264.2	15979.7	24684.7	28897.8	30281.5	29532.8	27916.8	18292.8
57.5°	2602.2	2690.0	3165.0	4435.1	7858.2	14895.5	19578.4	20791.7	22712.4	22924.1	14033.3
60°	1760.6	1770.9	1900.0	2220.1	3288.9	6996.0	10269.4	11725.4	13098.7	13005.8	7445.2
62.5°	1383.7	1419.8	1517.9	1647.0	1951.6	3175.3	4595.1	5405.7	5493.5	4621.0	2824.2
65°	1182.3	1187.5	1285.6	1394.0	1528.3	1848.4	2215.0	2256.3	2282.1	2199.5	2075.6
67.5°	975.8	986.1	1063.6	1187.5	1311.4	1414.7	1517.9	1569.6	1688.3	1920.7	1889.7
70°	774.5	790.0	857.1	960.3	1073.9	1135.9	1265.0	1311.4	1419.8	1600.6	1672.8
72.5°	588.6	593.8	650.5	722.8	826.1	888.1	996.5	1048.1	1120.4	1275.3	1342.4
75°	423.4	438.9	480.2	516.3	531.8	573.1	676.4	733.2	836.4	903.5	908.7
77.5°	222.0	232.3	242.7	242.7	294.3	371.7	438.9	469.8	542.1	593.8	567.9
80°	87.8	92.9	118.8	160.1	206.5	268.5	314.9	330.4	392.4	423.4	438.9
82.5°	51.6	56.8	77.4	113.6	149.7	191.0	227.2	242.7	284.0	320.1	330.4
85°	25.8	31.0	46.5	72.3	98.1	118.8	113.6	108.4	108.4	103.3	108.4
87.5°	10.3	10.3	15.5	15.5	15.5	20.7	25.8	25.8	25.8	31.0	31.0
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°	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4	12076.4
2.5°	12091.9	11885.4	11694.4	11343.3	10961.2	10852.8	10408.8	10248.7	10135.1	10000.9	9959.6
5°	12153.9	11880.3	11265.8	10558.5	9995.7	9272.9	8797.9	8286.7	7915.0	7822.1	7796.3
7.5°	12283.0	11813.1	10754.7	9685.9	8534.6	7553.6	6804.9	6402.2	6046.0	6025.3	5989.2
10°	12427.5	11611.8	10197.1	8519.1	7047.6	6138.9	5689.7	5514.2	5426.4	5405.7	5395.4
12.5°	12546.3	11570.5	9572.4	7383.2	5994.3	5447.1	5312.8	5297.3	5333.5	5343.8	5364.4
15°	12597.9	11405.2	8818.5	6366.1	5338.6	5137.3	5194.1	5256.0	5281.8	5349.0	5297.3
17.5°	12696.0	11193.6	7889.2	5560.6	4972.0	5008.2	5106.3	5178.6	5219.9	5266.3	5199.2
20°	12747.7	11002.5	7016.6	5080.5	4843.0	4910.1	5044.3	5101.1	5152.8	5173.4	5096.0
22.5°	12701.2	10610.1	6247.3	4693.2	4719.1	4806.8	4925.6	4987.5	4956.6	4873.9	4827.5
25°	12577.3	10057.7	5447.1	4445.4	4543.5	4698.4	4791.3	4744.9	4688.1	4641.6	4626.1
27.5°	12572.1	9381.3	4868.8	4218.2	4393.8	4605.5	4574.5	4533.2	4559.0	4522.9	4481.6
30°	12597.9	8725.6	4393.8	4089.2	4285.4	4388.6	4424.8	4383.5	4414.4	4347.3	4368.0
32.5°	12463.7	8085.4	4084.0	3939.4	4156.3	4151.1	4269.9	4300.8	4228.6	4089.2	4109.8
35°	12520.5	7569.1	3820.7	3872.3	4011.7	4011.7	4104.7	4068.5	3877.5	3794.9	3815.5
37.5°	12912.9	7063.1	3691.6	3779.4	3872.3	3913.6	3882.6	3727.7	3681.3	3681.3	3691.6
40°	13284.6	6629.4	3614.2	3758.7	3743.2	3769.1	3541.9	3557.4	3557.4	3562.5	3536.7
42.5°	13615.0	6335.1	3552.2	3634.8	3660.6	3526.4	3387.0	3371.5	3407.6	3402.5	3381.8
45°	13733.8	6092.4	3464.4	3495.4	3516.1	3294.0	3226.9	3195.9	3237.3	3252.7	3273.4
47.5°	13279.4	5891.1	3366.3	3304.4	3263.1	3118.5	3030.7	2973.9	3025.6	3113.3	3134.0
50°	12696.0	5627.8	3211.4	3092.7	3004.9	2943.0	2881.0	2824.2	2860.3	2922.3	2906.8
52.5°	11833.8	5214.7	3015.2	2891.3	2741.6	2757.1	2700.3	2669.3	2690.0	2690.0	2674.5
55°	10605.0	4285.4	2684.8	2597.0	2473.1	2514.4	2524.7	2483.4	2442.1	2478.3	2447.3
57.5°	7238.6	3025.6	2395.7	2395.7	2271.8	2328.6	2323.4	2225.3	2127.2	2137.5	2116.9
60°	4187.3	2411.2	2209.8	2189.1	2060.1	2106.5	2116.9	2049.7	1900.0	1910.3	1889.7
62.5°	2380.2	2060.1	1931.0	1900.0	1874.2	1915.5	1915.5	1827.7	1698.7	1709.0	1688.3
65°	2023.9	1910.3	1724.5	1719.3	1709.0	1719.3	1678.0	1585.1	1471.5	1425.0	1430.2
67.5°	1838.1	1765.8	1585.1	1538.6	1507.6	1502.5	1425.0	1337.2	1285.6	1244.3	1239.1
70°	1610.9	1554.1	1419.8	1357.9	1326.9	1254.6	1177.2	1120.4	1048.1	1027.5	1048.1
72.5°	1275.3	1270.1	1218.5	1151.4	1084.2	1027.5	960.3	882.9	815.8	800.3	764.1
75°	882.9	893.2	903.5	893.2	836.4	764.1	686.7	624.7	542.1	495.7	485.3
77.5°	578.3	593.8	609.2	588.6	552.4	485.3	433.7	356.3	294.3	258.2	253.0
80°	423.4	444.0	454.4	438.9	397.6	345.9	289.1	227.2	180.7	149.7	149.7
82.5°	325.3	345.9	356.3	330.4	289.1	247.8	206.5	160.1	123.9	98.1	92.9
85°	113.6	108.4	129.1	134.2	160.1	149.7	123.9	92.9	72.3	51.6	46.5
87.5°	31.0	31.0	36.1	36.1	31.0	25.8	25.8	25.8	20.7	15.5	15.5
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)