

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: P530972

Luminaire Tested: **GALN-SA6B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24797 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

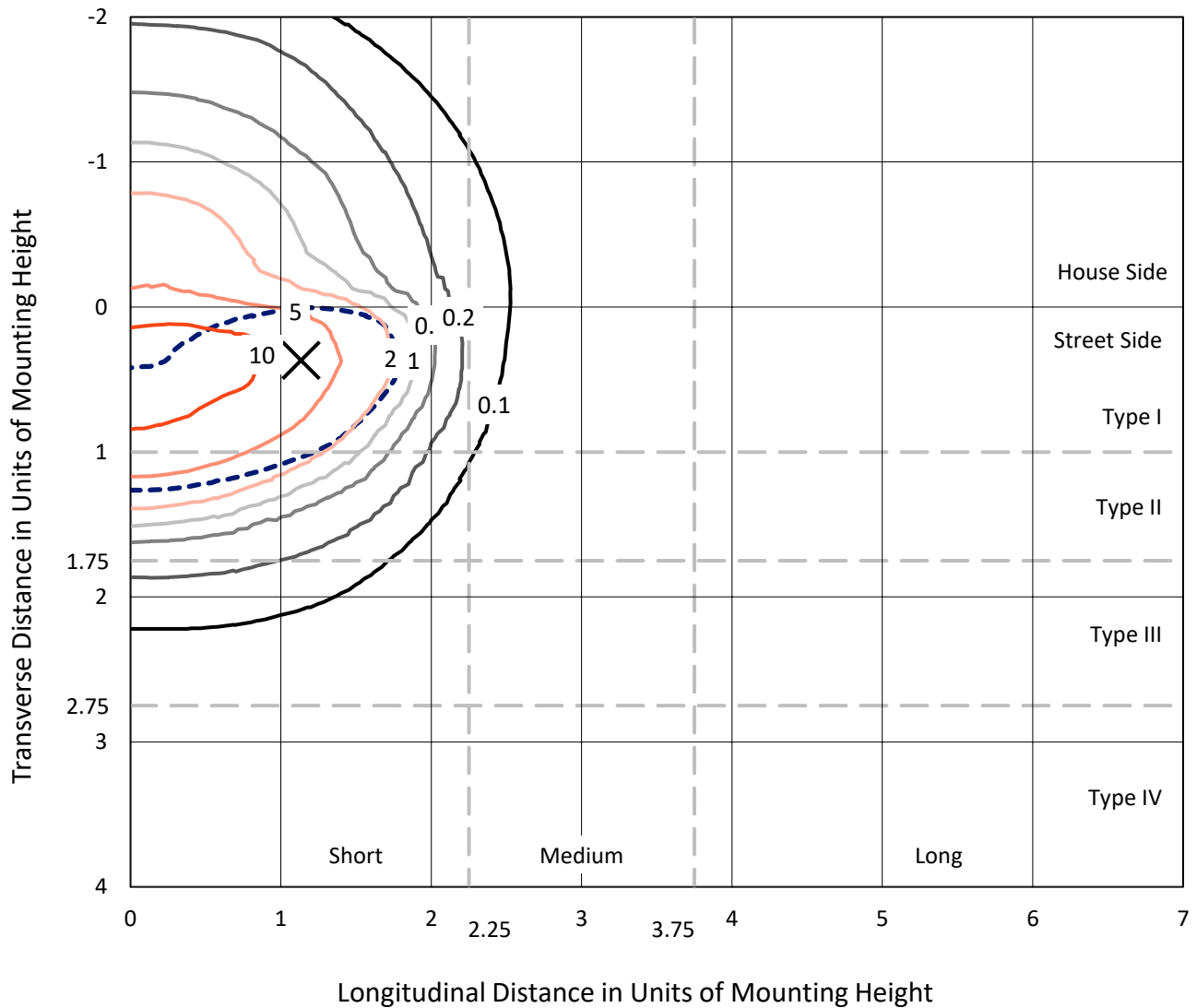
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

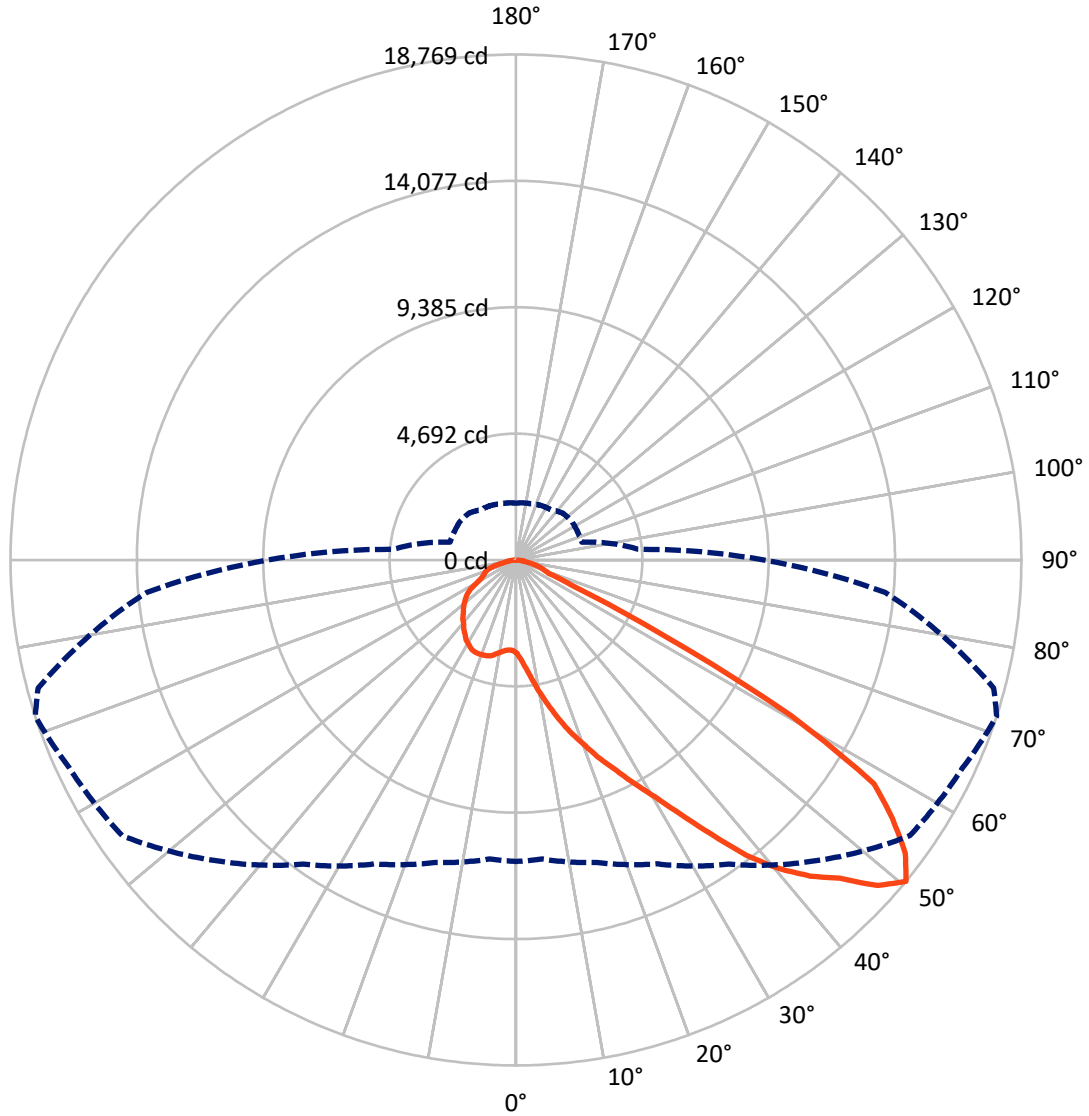
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5681.1	0.0	5681.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19115.9	0.0	19115.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	24797.0	0.0	24797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.0	1.6
10°-20°	1517.9	6.1
20°-30°	2943.1	11.9
30°-40°	4875.7	19.7
40°-50°	6822.2	27.5
50°-60°	5755.4	23.2
60°-70°	1754.2	7.1
70°-80°	615.4	2.5
80°-90°	107.0	0.4
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°	24797.0	100.0
0°-180°	24797.0	100.0

Coefficient of Utilization



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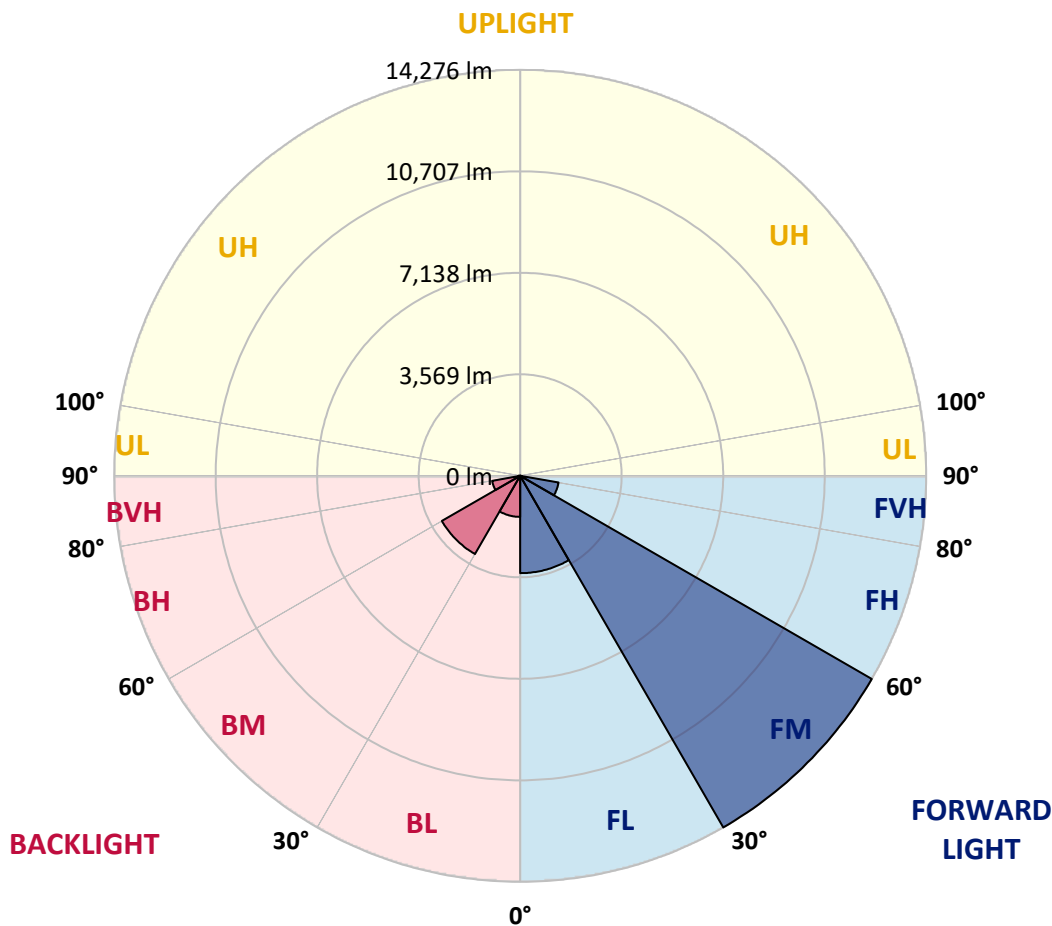
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3422.9	13.8			
FM (30°-60°)	14276.3	57.6			
FH (60°-80°)	1368.8	5.5			G1/1800
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	1444.2	5.8	B3/2500		
BM (30°-60°)	3177.0	12.8	B3/5000		
BH (60°-80°)	1000.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	59.1	0.2			G1/100
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°	65°	72°	75°	85°
0°	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0
2.5°	4440.0	4412.4	4329.5	4301.9	4203.7	4025.7	3964.4	3783.3	3706.6	3636.1	3553.2
5°	5615.2	5486.3	5477.1	5320.6	5093.5	4961.6	4568.9	4305.0	4062.6	3939.8	3712.8
7.5°	6363.9	6366.9	6366.9	6238.1	6057.0	5722.6	5369.7	4894.1	4529.0	4347.9	3961.3
10°	7075.7	7014.4	6980.6	6968.3	6845.6	6520.4	6142.9	5553.8	5053.7	4841.9	4148.5
12.5°	7579.0	7526.8	7603.5	7563.6	7474.6	7262.9	6907.0	6235.0	5609.0	5323.7	4449.2
15°	7818.3	7855.1	7916.5	8026.9	7987.1	7907.3	7514.5	6934.6	6207.4	5885.2	4716.1
17.5°	8186.5	8085.2	8158.9	8297.0	8407.4	8370.6	8146.6	7440.9	6799.6	6403.8	5075.1
20°	8444.2	8385.9	8422.8	8582.3	8665.2	8873.8	8757.2	8103.7	7367.2	6949.9	5498.6
22.5°	9180.7	9094.7	8975.1	8999.6	9030.3	9177.6	9205.2	8830.9	8026.9	7585.1	5900.5
25°	10088.9	10009.1	9868.0	9723.8	9634.8	9607.2	9702.3	9401.6	8659.0	8201.8	6333.2
27.5°	11089.2	10954.2	10865.2	10567.6	10328.2	10291.4	10245.4	10082.8	9407.7	8913.7	6821.1
30°	12061.9	11954.5	11834.8	11359.2	11110.7	11070.8	10843.7	10889.8	10220.9	9671.6	7373.4
32.5°	12798.3	12807.5	12534.4	12175.4	11942.2	11730.5	11647.7	11779.6	11264.1	10822.3	7990.1
35°	13393.6	13421.2	13160.4	12835.1	12583.5	12730.8	12694.0	12755.4	12509.9	11969.8	8708.1
37.5°	13973.5	13835.4	13556.2	13399.7	13267.8	13510.2	13823.2	13875.3	13921.3	13286.2	9542.7
40°	14068.6	14080.9	13918.3	14028.7	13863.0	14228.2	14955.4	14887.9	15075.1	14519.7	10447.9
42.5°	13933.6	13961.2	14025.7	14182.2	14581.1	15019.8	16099.9	15823.8	16050.8	15556.8	11328.5
45°	13712.7	13599.2	13678.9	14274.2	14964.6	15940.4	17146.2	16931.5	16857.8	16443.6	12377.9
47.5°	12657.2	12773.8	13022.3	13755.7	14792.8	16099.9	17888.8	17839.7	18060.6	17769.1	13332.2
50°	11193.5	11147.5	11626.2	12451.6	13789.4	15786.9	17848.9	18293.8	18769.4	18364.4	13758.7
52.5°	8382.9	8628.4	9039.5	10064.4	11972.9	14080.9	16977.5	17720.0	18106.6	18020.7	13415.1
55°	5299.1	5372.8	5621.3	6839.5	8557.8	11300.9	14553.4	16274.8	16965.2	17287.4	13099.0
57.5°	2574.4	2436.3	2740.1	3718.9	4943.2	7600.4	11224.2	14176.0	15676.5	16259.5	12411.7
60°	1344.0	1396.1	1515.8	1865.6	2556.0	3946.0	6996.0	9447.6	11739.7	12635.7	9407.7
62.5°	1113.8	1132.2	1212.0	1386.9	1699.9	2270.6	3571.6	4605.7	5986.5	6793.4	5351.3
65°	945.1	954.3	1040.2	1156.8	1356.2	1598.6	1838.0	1923.9	2328.9	2390.3	1902.4
67.5°	788.6	797.8	889.8	1000.3	1129.2	1193.6	1255.0	1248.8	1294.9	1276.5	1273.4
70°	607.5	616.7	711.9	828.5	892.9	856.1	1046.3	1089.3	1107.7	1123.0	1147.6
72.5°	438.8	457.2	530.8	613.7	579.9	665.8	862.2	926.7	951.2	960.4	991.1
75°	319.1	325.3	343.7	319.1	368.2	463.3	607.5	687.3	718.0	727.2	773.2
77.5°	141.1	144.2	147.3	184.1	236.3	288.4	362.1	426.5	469.5	481.7	494.0
80°	73.6	76.7	95.1	125.8	168.8	211.7	263.9	300.7	328.3	331.4	343.7
82.5°	46.0	49.1	67.5	89.0	119.7	156.5	193.3	224.0	245.5	248.5	251.6
85°	21.5	27.6	39.9	55.2	79.8	101.3	104.3	89.0	95.1	98.2	92.1
87.5°	6.1	9.2	12.3	9.2	12.3	12.3	15.3	18.4	18.4	18.4	21.5
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°	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0	3452.0
2.5°	3507.2	3479.6	3372.2	3332.3	3228.0	3246.4	3191.1	3188.1	3175.8	3172.7	3169.7
5°	3593.1	3507.2	3378.3	3280.1	3221.8	3215.7	3175.8	3175.8	3188.1	3197.3	3175.8
7.5°	3734.2	3636.1	3418.2	3326.1	3274.0	3264.8	3237.2	3215.7	3243.3	3234.1	3209.5
10°	3896.9	3725.0	3494.9	3415.1	3329.2	3307.7	3307.7	3316.9	3270.9	3286.3	3261.7
12.5°	4077.9	3847.8	3593.1	3501.0	3399.8	3387.5	3381.4	3313.9	3338.4	3326.1	3264.8
15°	4308.0	3988.9	3718.9	3562.4	3476.5	3421.3	3341.5	3329.2	3313.9	3283.2	3255.6
17.5°	4556.6	4142.3	3777.2	3580.8	3452.0	3412.1	3350.7	3286.3	3240.2	3246.4	3224.9
20°	4768.3	4283.5	3798.7	3599.2	3433.5	3356.8	3261.7	3221.8	3172.7	3169.7	3166.6
22.5°	5019.9	4473.7	3829.4	3550.1	3378.3	3298.5	3234.1	3163.5	3129.8	3086.8	3108.3
25°	5320.6	4547.4	3835.5	3522.5	3338.4	3197.3	3163.5	3086.8	3074.5	3013.2	3025.4
27.5°	5538.5	4587.3	3786.4	3436.6	3246.4	3139.0	3077.6	3022.4	3000.9	2954.9	2942.6
30°	5830.0	4648.6	3682.1	3329.2	3154.3	3034.7	2997.8	2985.6	2924.2	2875.1	2869.0
32.5°	6161.4	4688.5	3614.6	3218.8	3059.2	2967.1	2985.6	2927.3	2850.5	2807.6	2795.3
35°	6425.2	4703.9	3445.8	3093.0	2994.8	2936.5	2915.0	2902.7	2792.2	2752.4	2721.7
37.5°	6827.2	4670.1	3304.7	3004.0	2924.2	2902.7	2884.3	2801.5	2675.6	2617.3	2574.4
40°	7296.7	4660.9	3123.6	2878.2	2856.7	2881.2	2826.0	2697.1	2522.2	2457.8	2427.1
42.5°	7747.7	4725.3	3010.1	2810.7	2783.0	2792.2	2715.5	2522.2	2436.3	2399.5	2350.4
45°	8502.5	4860.4	2822.9	2706.3	2694.1	2687.9	2595.9	2393.4	2344.3	2298.2	2289.0
47.5°	9183.7	4771.4	2703.3	2598.9	2611.2	2577.5	2381.1	2316.6	2261.4	2215.4	2200.0
50°	9223.6	4559.6	2534.5	2516.1	2519.2	2460.9	2273.7	2230.7	2160.2	2129.5	2108.0
52.5°	9015.0	4212.9	2378.0	2384.1	2393.4	2298.2	2141.7	2111.1	2052.8	2009.8	1997.5
55°	8428.9	3672.9	2224.6	2249.1	2273.7	2092.7	2043.6	1966.8	1920.8	1859.5	1862.5
57.5°	7425.5	2957.9	2009.8	2049.7	2101.9	1902.4	1865.6	1770.5	1703.0	1653.9	1647.7
60°	4977.0	2104.9	1687.6	1703.0	1819.6	1739.8	1736.7	1641.6	1549.5	1506.6	1482.0
62.5°	2936.5	1607.8	1457.5	1442.1	1439.1	1485.1	1561.8	1528.1	1408.4	1325.6	1350.1
65°	1537.3	1390.0	1356.2	1304.1	1273.4	1261.1	1319.4	1334.8	1255.0	1166.0	1159.9
67.5°	1291.8	1291.8	1264.2	1245.8	1202.8	1150.7	1113.8	1064.7	1052.5	1027.9	997.2
70°	1175.2	1205.9	1196.7	1153.7	1116.9	1058.6	963.5	883.7	807.0	779.4	797.8
72.5°	1024.8	1055.5	1055.5	1034.1	985.0	896.0	803.9	711.9	647.4	598.3	592.2
75°	788.6	803.9	840.7	816.2	751.8	696.5	601.4	506.3	444.9	398.9	389.7
77.5°	503.2	527.8	527.8	524.7	478.7	426.5	365.1	297.6	251.6	217.9	208.7
80°	334.5	349.8	362.1	349.8	319.1	279.2	233.2	187.2	153.4	125.8	119.7
82.5°	245.5	263.9	273.1	260.8	230.1	199.4	165.7	131.9	98.2	76.7	70.6
85°	95.1	98.2	110.5	131.9	128.9	125.8	101.3	73.6	55.2	39.9	36.8
87.5°	24.5	21.5	24.5	24.5	21.5	18.4	18.4	18.4	18.4	9.2	12.3
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)