

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: P533546

Luminaire Tested: **GALN-SA9A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533546
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-SA9A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 30468 lumens
Efficiency: N/A
Efficacy: 111.2 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

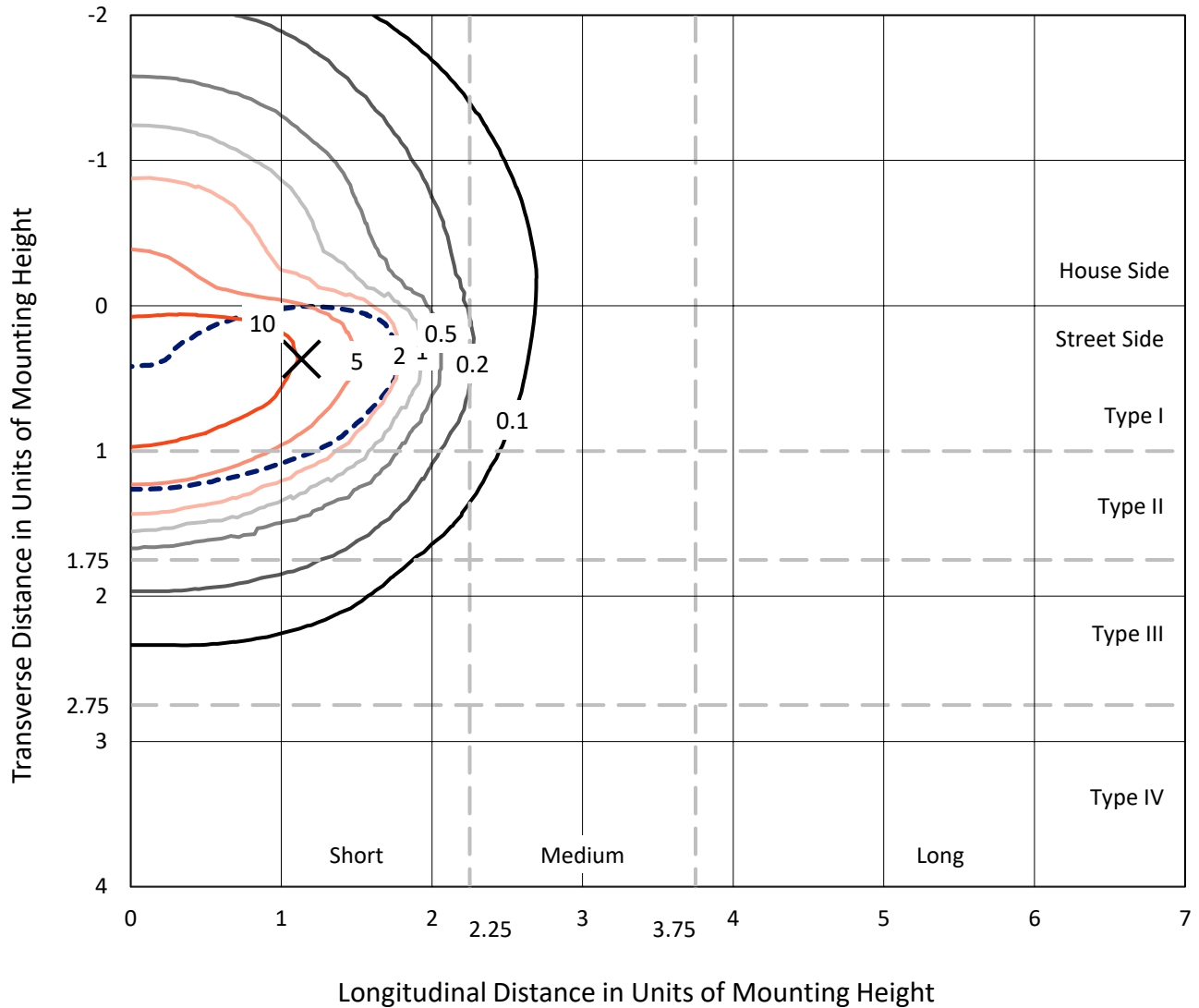
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

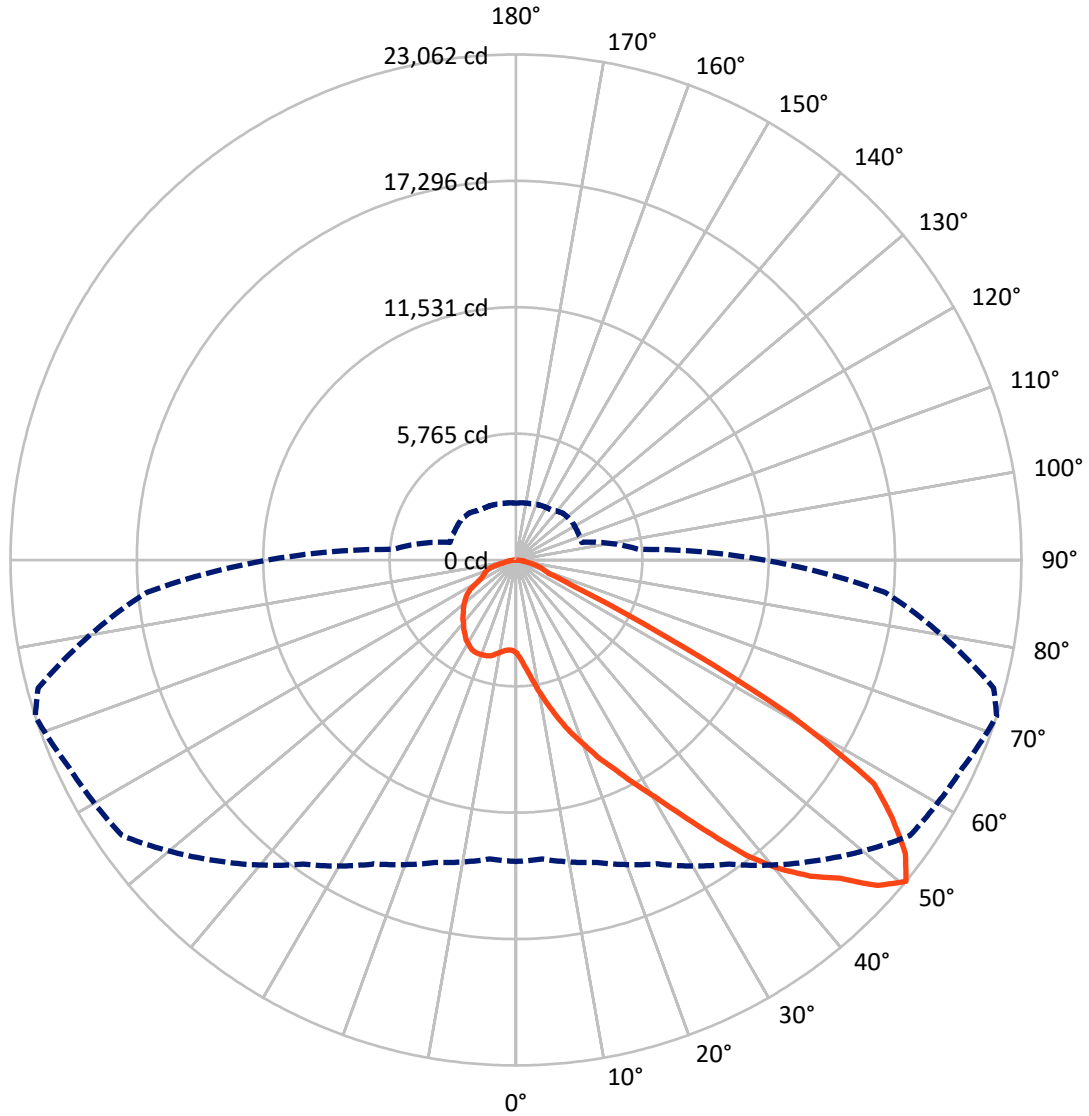
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	6980.4	0.0	6980.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23487.6	0.0	23487.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	30468.0	0.0	30468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.9	1.6
10°-20°	1865.0	6.1
20°-30°	3616.2	11.9
30°-40°	5990.8	19.7
40°-50°	8382.4	27.5
50°-60°	7071.6	23.2
60°-70°	2155.4	7.1
70°-80°	756.2	2.5
80°-90°	131.5	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°	30468.0	100.0
0°-180°	30468.0	100.0

Coefficient of Utilization

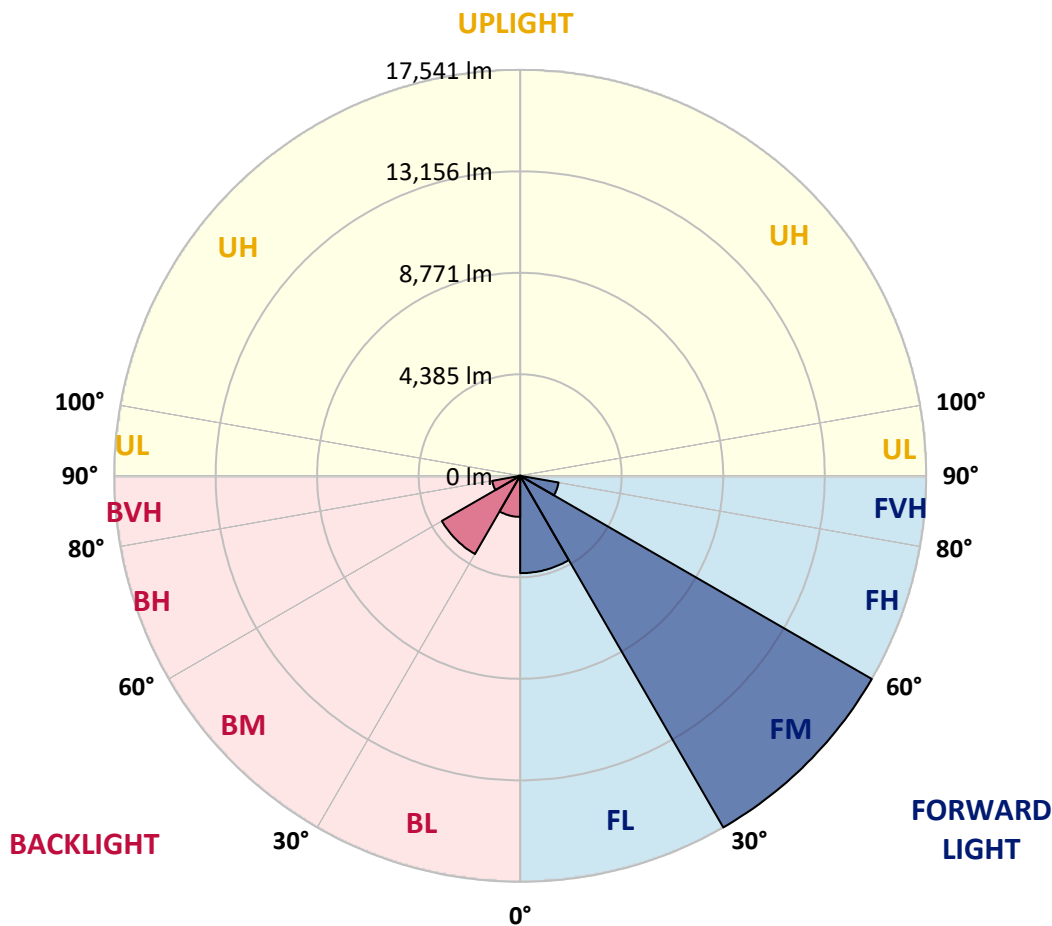


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4205.7	13.8			
FM (30°-60°)	17541.3	57.6			
FH (60°-80°)	1681.8	5.5			G1/1800
FVH (80°-90°)	58.9	0.2			G1/100
BL (0°-30°)	1774.4	5.8	B3/2500		
BM (30°-60°)	3903.6	12.8	B3/5000		
BH (60°-80°)	1229.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	72.6	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°	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4
2.5°	5455.4	5421.5	5319.7	5285.7	5165.1	4946.4	4871.0	4648.6	4554.3	4467.6	4365.8
5°	6899.4	6741.0	6729.7	6537.4	6258.4	6096.3	5613.7	5289.5	4991.7	4840.9	4561.9
7.5°	7819.3	7823.0	7823.0	7664.7	7442.3	7031.3	6597.7	6013.4	5564.7	5342.3	4867.2
10°	8693.9	8618.5	8577.1	8562.0	8411.2	8011.5	7547.8	6824.0	6209.4	5949.3	5097.2
12.5°	9312.2	9248.1	9342.4	9293.4	9184.1	8923.9	8486.6	7660.9	6891.8	6541.2	5466.7
15°	9606.3	9651.6	9727.0	9862.7	9813.7	9715.6	9233.1	8520.5	7627.0	7231.1	5794.7
17.5°	10058.7	9934.3	10024.8	10194.5	10330.2	10284.9	10009.7	9142.6	8354.6	7868.3	6235.8
20°	10375.4	10303.8	10349.0	10545.1	10646.9	10903.2	10760.0	9956.9	9052.1	8539.4	6756.1
22.5°	11280.3	11174.7	11027.7	11057.8	11095.5	11276.5	11310.4	10850.5	9862.7	9319.8	7250.0
25°	12396.2	12298.2	12124.8	11947.6	11838.2	11804.3	11921.2	11551.7	10639.3	10077.6	7781.6
27.5°	13625.3	13459.4	13350.1	12984.4	12690.3	12645.0	12588.5	12388.7	11559.2	10952.3	8381.0
30°	14820.4	14688.5	14541.4	13957.1	13651.7	13602.7	13323.7	13380.2	12558.3	11883.5	9059.6
32.5°	15725.2	15736.6	15401.0	14959.9	14673.4	14413.2	14311.4	14473.6	13840.2	13297.3	9817.4
35°	16456.7	16490.6	16170.1	15770.5	15461.3	15642.3	15597.1	15672.5	15370.9	14707.3	10699.7
37.5°	17169.2	16999.6	16656.5	16464.2	16302.1	16599.9	16984.5	17048.6	17105.1	16324.7	11725.1
40°	17286.1	17301.2	17101.3	17237.1	17033.5	17482.1	18375.7	18292.7	18522.7	17840.3	12837.3
42.5°	17120.2	17154.1	17233.3	17425.6	17915.7	18454.8	19781.9	19442.6	19721.6	19114.6	13919.4
45°	16848.7	16709.3	16807.3	17538.7	18387.0	19585.9	21067.5	20803.6	20713.1	20204.2	15208.7
47.5°	15551.8	15695.1	16000.5	16901.5	18175.8	19781.9	21979.9	21919.6	22191.0	21832.9	16381.3
50°	13753.5	13696.9	14285.1	15299.2	16943.0	19397.4	21930.9	22477.6	23061.9	22564.3	16905.3
52.5°	10300.0	10601.6	11106.8	12366.1	14711.1	17301.2	20860.2	21772.5	22247.6	22142.0	16483.0
55°	6511.0	6601.5	6906.9	8403.6	10514.9	13885.4	17881.8	19996.8	20845.1	21241.0	16094.7
57.5°	3163.1	2993.5	3366.7	4569.4	6073.7	9338.6	13791.2	17418.0	19261.6	19978.0	15250.2
60°	1651.3	1715.4	1862.4	2292.2	3140.5	4848.4	8595.9	11608.3	14424.5	15525.4	11559.2
62.5°	1368.6	1391.2	1489.2	1704.1	2088.7	2789.9	4388.4	5659.0	7355.5	8347.1	6575.1
65°	1161.2	1172.5	1278.1	1421.3	1666.4	1964.2	2258.3	2363.9	2861.5	2936.9	2337.5
67.5°	968.9	980.2	1093.3	1229.1	1387.4	1466.6	1542.0	1534.4	1591.0	1568.4	1564.6
70°	746.5	757.8	874.7	1017.9	1097.1	1051.9	1285.6	1338.4	1361.0	1379.9	1410.0
72.5°	539.1	561.8	652.2	754.0	712.6	818.1	1059.4	1138.6	1168.7	1180.1	1217.8
75°	392.1	399.6	422.3	392.1	452.4	569.3	746.5	844.5	882.2	893.5	950.1
77.5°	173.4	177.2	181.0	226.2	290.3	354.4	444.9	524.0	576.8	591.9	607.0
80°	90.5	94.3	116.9	154.6	207.4	260.1	324.2	369.5	403.4	407.2	422.3
82.5°	56.6	60.3	82.9	109.3	147.0	192.3	237.5	275.2	301.6	305.4	309.2
85°	26.4	33.9	49.0	67.9	98.0	124.4	128.2	109.3	116.9	120.6	113.1
87.5°	7.5	11.3	15.1	11.3	15.1	15.1	18.9	22.6	22.6	22.6	26.4
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°	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4	4241.4
2.5°	4309.3	4275.3	4143.4	4094.4	3966.2	3988.8	3920.9	3917.2	3902.1	3898.3	3894.6
5°	4414.8	4309.3	4150.9	4030.3	3958.6	3951.1	3902.1	3902.1	3917.2	3928.5	3902.1
7.5°	4588.3	4467.6	4199.9	4086.8	4022.7	4011.4	3977.5	3951.1	3985.0	3973.7	3943.6
10°	4788.1	4576.9	4294.2	4196.2	4090.6	4064.2	4064.2	4075.5	4019.0	4037.8	4007.7
12.5°	5010.5	4727.8	4414.8	4301.7	4177.3	4162.2	4154.7	4071.7	4101.9	4086.8	4011.4
15°	5293.3	4901.2	4569.4	4377.1	4271.6	4203.7	4105.7	4090.6	4071.7	4034.0	4000.1
17.5°	5598.7	5089.7	4641.0	4399.8	4241.4	4192.4	4117.0	4037.8	3981.3	3988.8	3962.4
20°	5858.8	5263.1	4667.4	4422.4	4218.8	4124.5	4007.7	3958.6	3898.3	3894.6	3890.8
22.5°	6167.9	5496.9	4705.1	4362.0	4150.9	4052.9	3973.7	3887.0	3845.5	3792.8	3819.1
25°	6537.4	5587.3	4712.7	4328.1	4101.9	3928.5	3887.0	3792.8	3777.7	3702.3	3717.4
27.5°	6805.1	5636.4	4652.4	4222.6	3988.8	3856.9	3781.4	3713.6	3687.2	3630.6	3615.6
30°	7163.3	5711.8	4524.2	4090.6	3875.7	3728.7	3683.4	3668.3	3592.9	3532.6	3525.1
32.5°	7570.4	5760.8	4441.2	3954.9	3758.8	3645.7	3668.3	3596.7	3502.5	3449.7	3434.6
35°	7894.7	5779.6	4233.9	3800.3	3679.7	3608.0	3581.6	3566.6	3430.8	3381.8	3344.1
37.5°	8388.6	5738.2	4060.4	3691.0	3592.9	3566.6	3543.9	3442.1	3287.6	3215.9	3163.1
40°	8965.4	5726.8	3838.0	3536.4	3510.0	3540.2	3472.3	3314.0	3099.1	3019.9	2982.2
42.5°	9519.6	5806.0	3698.5	3453.4	3419.5	3430.8	3336.6	3099.1	2993.5	2948.2	2887.9
45°	10447.1	5971.9	3468.5	3325.3	3310.2	3302.6	3189.5	2940.7	2880.4	2823.8	2812.5
47.5°	11284.0	5862.6	3321.5	3193.3	3208.4	3166.9	2925.6	2846.5	2778.6	2722.0	2703.2
50°	11333.0	5602.4	3114.1	3091.5	3095.3	3023.7	2793.7	2740.9	2654.2	2616.5	2590.1
52.5°	11076.7	5176.4	2921.9	2929.4	2940.7	2823.8	2631.6	2593.9	2522.2	2469.4	2454.4
55°	10356.6	4512.9	2733.4	2763.5	2793.7	2571.2	2510.9	2416.7	2360.1	2284.7	2288.5
57.5°	9123.7	3634.4	2469.4	2518.5	2582.5	2337.5	2292.2	2175.4	2092.4	2032.1	2024.6
60°	6115.2	2586.3	2073.6	2092.4	2235.7	2137.7	2133.9	2017.0	1903.9	1851.1	1821.0
62.5°	3608.0	1975.6	1790.8	1772.0	1768.2	1824.7	1919.0	1877.5	1730.5	1628.7	1658.9
65°	1888.8	1707.9	1666.4	1602.3	1564.6	1549.5	1621.2	1640.0	1542.0	1432.7	1425.1
67.5°	1587.2	1587.2	1553.3	1530.7	1477.9	1413.8	1368.6	1308.2	1293.2	1263.0	1225.3
70°	1444.0	1481.7	1470.4	1417.6	1372.3	1300.7	1183.8	1085.8	991.5	957.6	980.2
72.5°	1259.2	1296.9	1296.9	1270.5	1210.2	1100.9	987.8	874.7	795.5	735.2	727.6
75°	968.9	987.8	1033.0	1002.9	923.7	855.8	738.9	622.1	546.7	490.1	478.8
77.5°	618.3	648.5	648.5	644.7	588.1	524.0	448.6	365.7	309.2	267.7	256.4
80°	410.9	429.8	444.9	429.8	392.1	343.1	286.5	230.0	188.5	154.6	147.0
82.5°	301.6	324.2	335.5	320.5	282.8	245.1	203.6	162.1	120.6	94.3	86.7
85°	116.9	120.6	135.7	162.1	158.3	154.6	124.4	90.5	67.9	49.0	45.2
87.5°	30.2	26.4	30.2	30.2	26.4	22.6	22.6	22.6	22.6	11.3	15.1
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)