

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: P532298

Luminaire Tested: **GALN-SA7C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532298
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-SA7C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 31632 lumens
Efficiency: N/A
Efficacy: 83.9 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

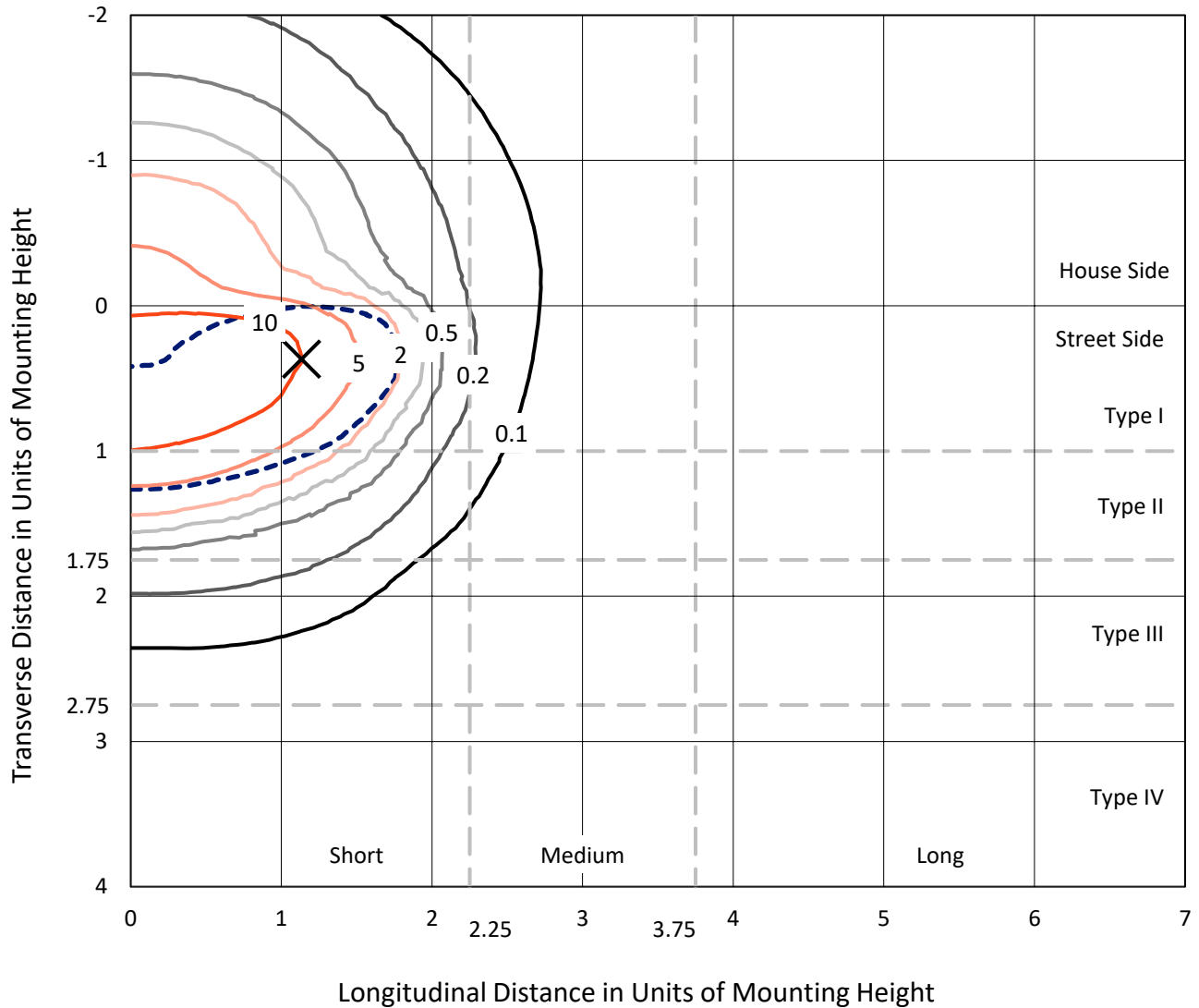
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

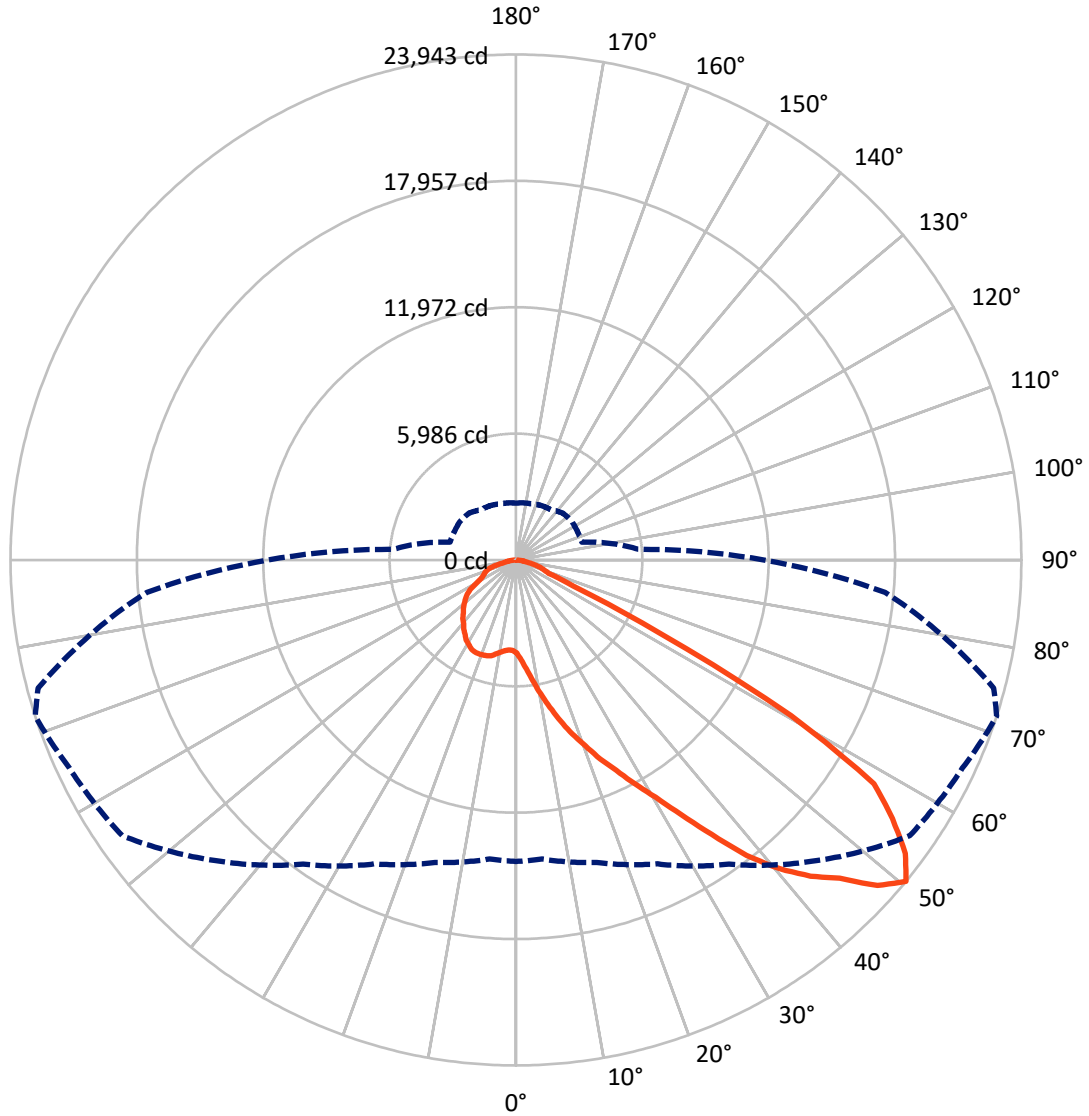
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	7247.1	0.0	7247.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	24384.9	0.0	24384.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	31632.0	0.0	31632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.0	1.6
10°-20°	1936.3	6.1
20°-30°	3754.3	11.9
30°-40°	6219.7	19.7
40°-50°	8702.6	27.5
50°-60°	7341.8	23.2
60°-70°	2237.8	7.1
70°-80°	785.1	2.5
80°-90°	136.5	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°	31632.0	100.0
0°-180°	31632.0	100.0

Coefficient of Utilization



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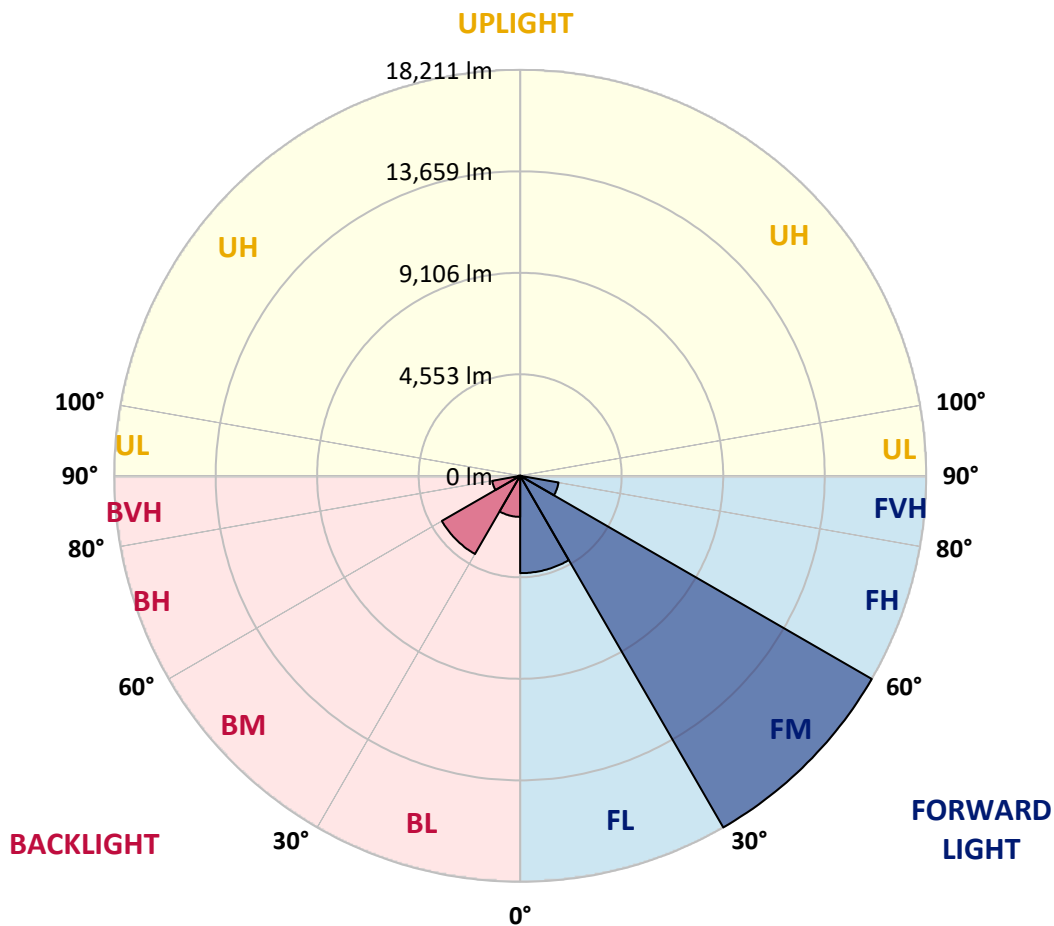
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4366.4	13.8			
FM (30°-60°)	18211.4	57.6			
FH (60°-80°)	1746.0	5.5			G1/1800
FVH (80°-90°)	61.1	0.2			G1/100
BL (0°-30°)	1842.2	5.8	B3/2500		
BM (30°-60°)	4052.7	12.8	B3/5000		
BH (60°-80°)	1276.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	75.4	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°	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4
2.5°	5663.8	5628.6	5522.9	5487.7	5362.4	5135.4	5057.1	4826.2	4728.3	4638.3	4532.6
5°	7162.9	6998.5	6986.8	6787.2	6497.5	6329.2	5828.2	5491.6	5182.4	5025.8	4736.1
7.5°	8118.0	8121.9	8121.9	7957.5	7726.6	7299.9	6849.8	6243.1	5777.3	5546.4	5053.2
10°	9026.1	8947.8	8904.7	8889.1	8732.5	8317.6	7836.2	7084.7	6446.6	6176.6	5292.0
12.5°	9668.0	9601.5	9699.3	9648.4	9534.9	9264.8	8810.8	7953.6	7155.1	6791.1	5675.6
15°	9973.3	10020.3	10098.6	10239.5	10188.6	10086.8	9585.8	8846.0	7918.4	7507.4	6016.1
17.5°	10443.0	10313.8	10407.8	10583.9	10724.8	10677.9	10392.1	9491.9	8673.8	8168.9	6474.0
20°	10771.8	10697.4	10744.4	10947.9	11053.6	11319.8	11171.0	10337.3	9397.9	8865.6	7014.2
22.5°	11711.2	11601.6	11449.0	11480.3	11519.4	11707.3	11742.5	11265.0	10239.5	9675.8	7527.0
25°	12869.8	12768.0	12588.0	12404.0	12290.5	12255.3	12376.6	11993.0	11045.8	10462.6	8078.9
27.5°	14145.8	13973.6	13860.1	13480.4	13175.1	13128.1	13069.4	12862.0	12000.9	11370.7	8701.2
30°	15386.6	15249.6	15097.0	14490.3	14173.2	14122.3	13832.7	13891.4	13038.1	12337.5	9405.8
32.5°	16326.0	16337.8	15989.4	15531.4	15234.0	14963.9	14858.2	15026.5	14368.9	13805.3	10192.5
35°	17085.4	17120.6	16787.9	16373.0	16052.0	16239.9	16192.9	16271.2	15958.1	15269.2	11108.4
37.5°	17825.1	17649.0	17292.8	17093.2	16924.9	17234.1	17633.3	17699.9	17758.6	16948.4	12173.1
40°	17946.5	17962.1	17754.7	17895.6	17684.2	18150.0	19077.7	18991.6	19230.3	18521.9	13327.8
42.5°	17774.3	17809.5	17891.7	18091.3	18600.1	19159.9	20537.7	20185.4	20475.0	19844.9	14451.1
45°	17492.4	17347.6	17449.4	18208.7	19089.4	20334.1	21872.4	21598.4	21504.5	20976.1	15789.8
47.5°	16146.0	16294.7	16611.7	17547.2	18870.2	20537.7	22819.6	22757.0	23038.8	22667.0	17007.1
50°	14278.9	14220.2	14830.8	15883.7	17590.3	20138.4	22768.7	23336.3	23943.0	23426.3	17551.1
52.5°	10693.5	11006.7	11531.2	12838.5	15273.1	17962.1	21657.1	22604.3	23097.5	22987.9	17112.8
55°	6759.8	6853.7	7170.8	8724.7	10916.6	14415.9	18564.9	20760.8	21641.5	22052.4	16709.6
57.5°	3284.0	3107.9	3495.4	4744.0	6305.7	9695.4	14318.0	18083.5	19997.5	20741.2	15832.8
60°	1714.4	1780.9	1933.6	2379.8	3260.5	5033.6	8924.3	12051.7	14975.6	16118.6	12000.9
62.5°	1420.8	1444.3	1546.1	1769.2	2168.5	2896.5	4556.1	5875.2	7636.6	8666.0	6826.3
65°	1205.6	1217.3	1326.9	1475.6	1730.1	2039.3	2344.6	2454.2	2970.9	3049.1	2426.8
67.5°	1005.9	1017.7	1135.1	1276.0	1440.4	1522.6	1600.9	1593.1	1651.8	1628.3	1624.4
70°	775.0	786.7	908.1	1056.8	1139.0	1092.1	1334.7	1389.5	1413.0	1432.6	1463.9
72.5°	559.7	583.2	677.2	782.8	739.8	849.4	1099.9	1182.1	1213.4	1225.1	1264.3
75°	407.1	414.9	438.4	407.1	469.7	591.0	775.0	876.8	915.9	927.7	986.4
77.5°	180.1	184.0	187.9	234.9	301.4	367.9	461.9	544.1	598.9	614.5	630.2
80°	93.9	97.9	121.3	160.5	215.3	270.1	336.6	383.6	418.8	422.7	438.4
82.5°	58.7	62.6	86.1	113.5	152.7	199.6	246.6	285.7	313.1	317.0	321.0
85°	27.4	35.2	50.9	70.5	101.8	129.2	133.1	113.5	121.3	125.3	117.4
87.5°	7.8	11.7	15.7	11.7	15.7	15.7	19.6	23.5	23.5	23.5	27.4
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°	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4	4403.4
2.5°	4473.9	4438.7	4301.7	4250.8	4117.7	4141.2	4070.7	4066.8	4051.2	4047.3	4043.3
5°	4583.5	4473.9	4309.5	4184.3	4109.9	4102.1	4051.2	4051.2	4066.8	4078.6	4051.2
7.5°	4763.5	4638.3	4360.4	4243.0	4176.4	4164.7	4129.5	4102.1	4137.3	4125.5	4094.2
10°	4971.0	4751.8	4458.2	4356.5	4246.9	4219.5	4219.5	4231.2	4172.5	4192.1	4160.8
12.5°	5201.9	4908.4	4583.5	4466.1	4336.9	4321.2	4313.4	4227.3	4258.6	4243.0	4164.7
15°	5495.5	5088.4	4744.0	4544.4	4434.8	4364.3	4262.5	4246.9	4227.3	4188.2	4152.9
17.5°	5812.5	5284.1	4818.3	4567.8	4403.4	4352.6	4274.3	4192.1	4133.4	4141.2	4113.8
20°	6082.6	5464.2	4845.7	4591.3	4380.0	4282.1	4160.8	4109.9	4047.3	4043.3	4039.4
22.5°	6403.6	5706.9	4884.9	4528.7	4309.5	4207.7	4125.5	4035.5	3992.5	3937.7	3965.1
25°	6787.2	5800.8	4892.7	4493.5	4258.6	4078.6	4035.5	3937.7	3922.0	3843.7	3859.4
27.5°	7065.1	5851.7	4830.1	4383.9	4141.2	4004.2	3925.9	3855.5	3828.1	3769.3	3753.7
30°	7436.9	5930.0	4697.0	4246.9	4023.8	3871.1	3824.1	3808.5	3730.2	3667.6	3659.8
32.5°	7859.7	5980.9	4610.9	4106.0	3902.4	3785.0	3808.5	3734.1	3636.3	3581.5	3565.8
35°	8196.3	6000.4	4395.6	3945.5	3820.2	3745.9	3718.5	3702.8	3561.9	3511.0	3471.9
37.5°	8709.0	5957.4	4215.6	3832.0	3730.2	3702.8	3679.3	3573.6	3413.2	3338.8	3284.0
40°	9307.9	5945.6	3984.6	3671.5	3644.1	3675.4	3605.0	3440.6	3217.4	3135.3	3096.1
42.5°	9883.3	6027.8	3839.8	3585.4	3550.2	3561.9	3464.0	3217.4	3107.9	3060.9	2998.3
45°	10846.2	6200.0	3601.0	3452.3	3436.6	3428.8	3311.4	3053.1	2990.4	2931.7	2920.0
47.5°	11715.1	6086.5	3448.4	3315.3	3331.0	3287.9	3037.4	2955.2	2884.7	2826.0	2806.5
50°	11766.0	5816.5	3233.1	3209.6	3213.5	3139.2	2900.4	2845.6	2755.6	2716.4	2689.0
52.5°	11499.8	5374.2	3033.5	3041.3	3053.1	2931.7	2732.1	2693.0	2618.6	2563.8	2548.1
55°	10752.2	4685.3	2837.8	2869.1	2900.4	2669.5	2606.8	2509.0	2450.3	2372.0	2375.9
57.5°	9472.3	3773.3	2563.8	2614.7	2681.2	2426.8	2379.8	2258.5	2172.4	2109.7	2101.9
60°	6348.8	2685.1	2152.8	2172.4	2321.1	2219.3	2215.4	2094.1	1976.7	1921.9	1890.5
62.5°	3745.9	2051.0	1859.2	1839.7	1835.7	1894.5	1992.3	1949.3	1796.6	1690.9	1722.2
65°	1961.0	1773.1	1730.1	1663.5	1624.4	1608.7	1683.1	1702.7	1600.9	1487.4	1479.6
67.5°	1647.9	1647.9	1612.6	1589.2	1534.4	1467.8	1420.8	1358.2	1342.6	1311.2	1272.1
70°	1499.1	1538.3	1526.5	1471.7	1424.8	1350.4	1229.1	1127.3	1029.4	994.2	1017.7
72.5°	1307.3	1346.5	1346.5	1319.1	1256.4	1142.9	1025.5	908.1	825.9	763.3	755.4
75°	1005.9	1025.5	1072.5	1041.2	959.0	888.5	767.2	645.8	567.6	508.8	497.1
77.5°	641.9	673.2	673.2	669.3	610.6	544.1	465.8	379.7	321.0	277.9	266.2
80°	426.6	446.2	461.9	446.2	407.1	356.2	297.5	238.8	195.7	160.5	152.7
82.5°	313.1	336.6	348.4	332.7	293.6	254.4	211.4	168.3	125.3	97.9	90.0
85°	121.3	125.3	140.9	168.3	164.4	160.5	129.2	93.9	70.5	50.9	47.0
87.5°	31.3	27.4	31.3	31.3	27.4	23.5	23.5	23.5	23.5	11.7	15.7
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)