

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: P532532

Luminaire Tested: **GALN-SA7D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532532
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-SA7D-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA 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: 34807 lumens
Efficiency: N/A
Efficacy: 80.4 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

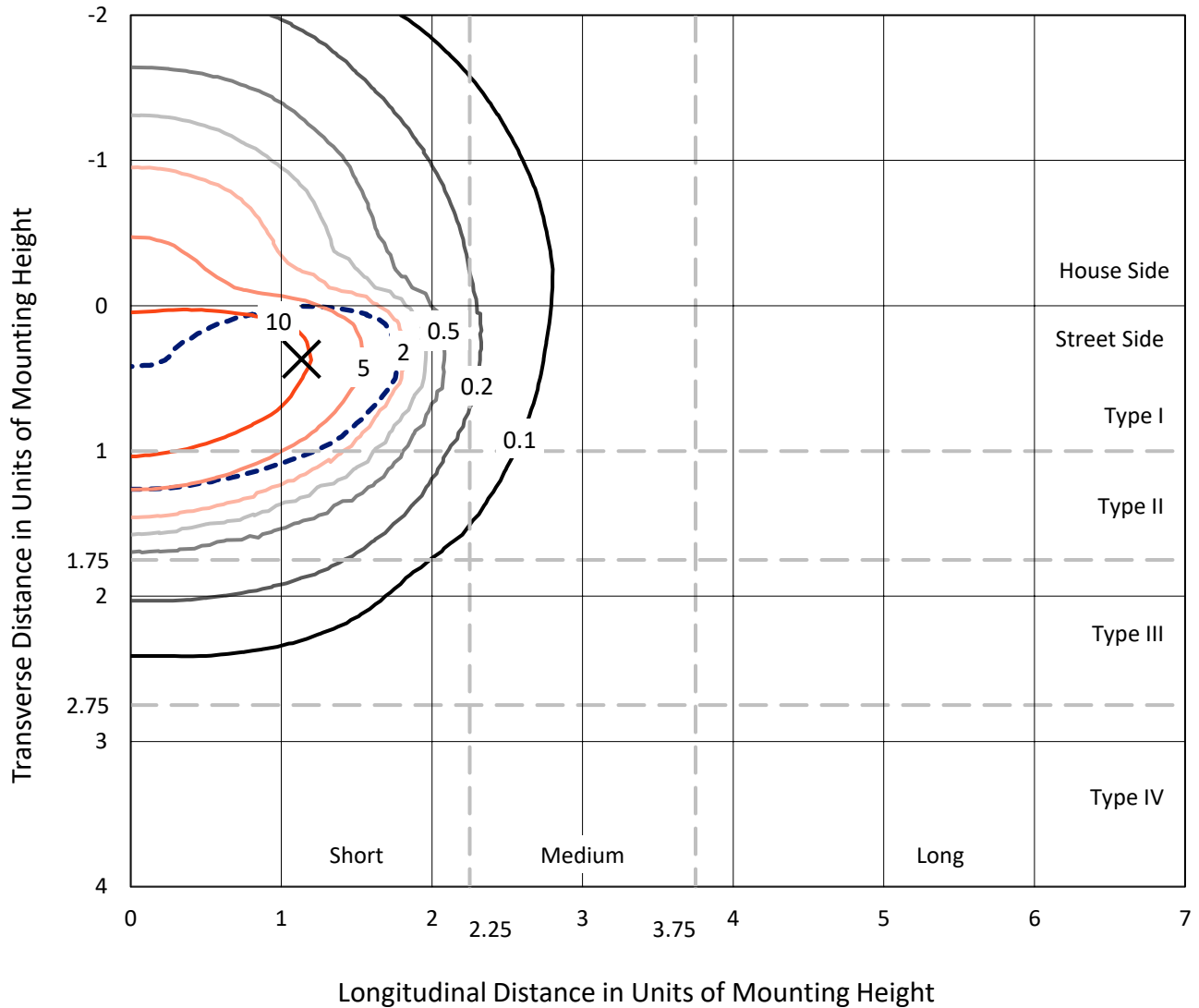
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

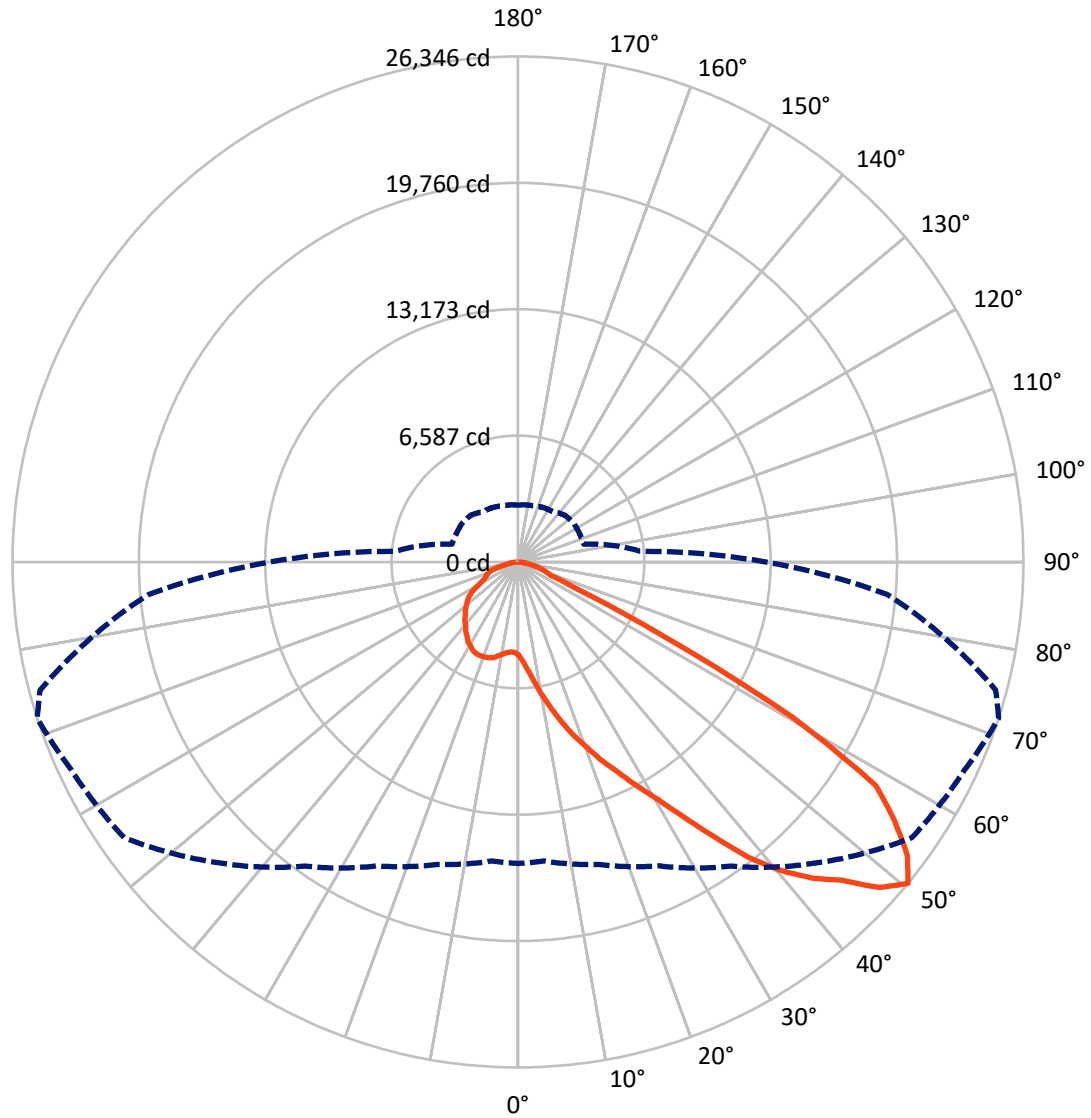
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	7974.5	0.0	7974.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	26832.5	0.0	26832.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	34807.0	0.0	34807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.9	1.6
10°-20°	2130.6	6.1
20°-30°	4131.2	11.9
30°-40°	6843.9	19.7
40°-50°	9576.1	27.5
50°-60°	8078.7	23.2
60°-70°	2462.4	7.1
70°-80°	863.9	2.5
80°-90°	150.2	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°	34807.0	100.0
0°-180°	34807.0	100.0

Coefficient of Utilization



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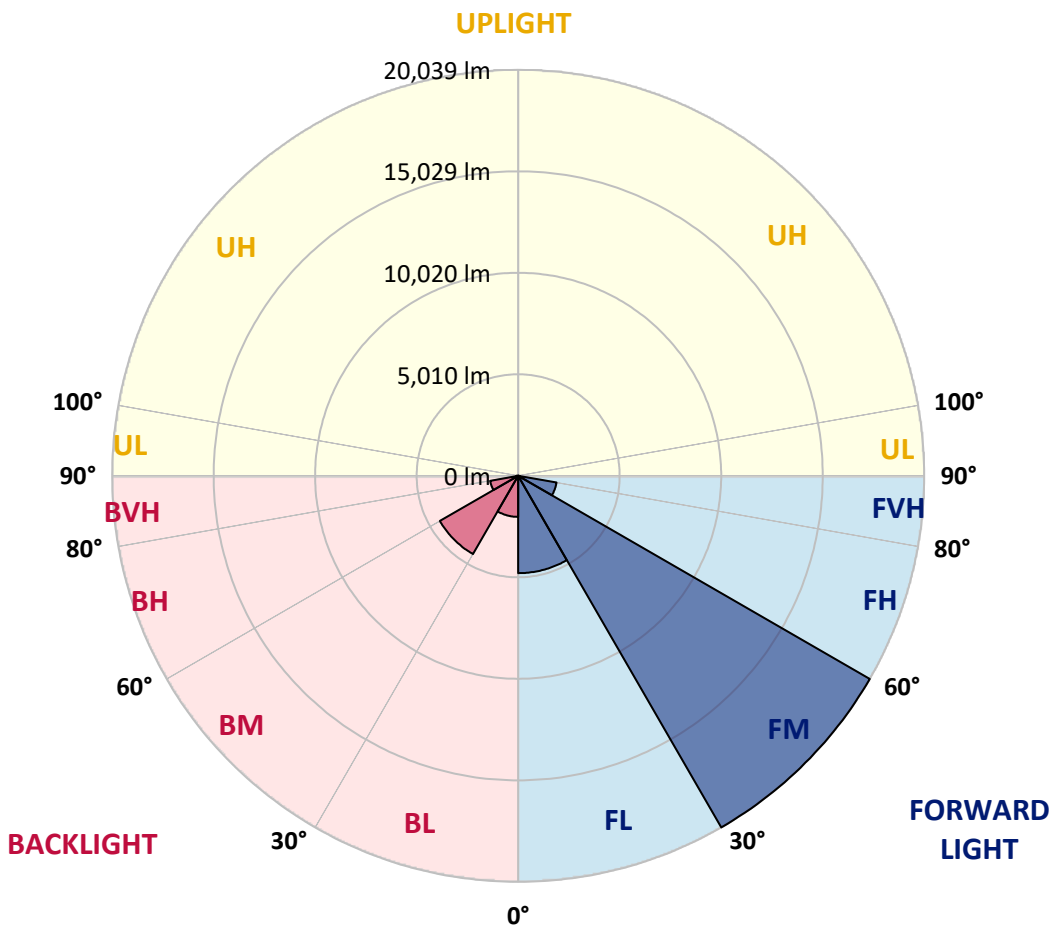
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4804.6	13.8			
FM (30°-60°)	20039.3	57.6			
FH (60°-80°)	1921.3	5.5			G2/5000
FVH (80°-90°)	67.3	0.2			G1/100
BL (0°-30°)	2027.1	5.8	B3/2500		
BM (30°-60°)	4459.5	12.8	B3/5000		
BH (60°-80°)	1405.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	82.9	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°	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4
2.5°	6232.3	6193.5	6077.2	6038.5	5900.7	5650.8	5564.7	5310.6	5202.9	5103.9	4987.6
5°	7881.9	7701.0	7688.1	7468.4	7149.7	6964.5	6413.2	6042.8	5702.5	5530.3	5211.5
7.5°	8932.8	8937.1	8937.1	8756.2	8502.1	8032.6	7537.3	6869.7	6357.2	6103.1	5560.4
10°	9932.1	9845.9	9798.5	9781.3	9609.0	9152.5	8622.7	7795.8	7093.7	6796.5	5823.1
12.5°	10638.4	10565.2	10672.9	10616.9	10492.0	10194.8	9695.2	8751.9	7873.3	7472.7	6245.2
15°	10974.4	11026.0	11112.2	11267.2	11211.3	11099.3	10548.0	9733.9	8713.2	8260.9	6619.9
17.5°	11491.2	11349.1	11452.4	11646.3	11801.3	11749.6	11435.2	10444.6	9544.4	8988.8	7123.9
20°	11853.0	11771.2	11822.9	12046.8	12163.1	12456.0	12292.3	11374.9	10341.2	9755.5	7718.2
22.5°	12886.7	12766.1	12598.1	12632.6	12675.6	12882.4	12921.1	12395.7	11267.2	10647.0	8282.5
25°	14161.6	14049.6	13851.5	13649.0	13524.1	13485.4	13618.9	13196.8	12154.5	11512.7	8889.8
27.5°	15565.7	15376.2	15251.3	14833.5	14497.5	14445.8	14381.2	14153.0	13205.4	12512.0	9574.6
30°	16931.0	16780.3	16612.3	15944.7	15595.8	15539.8	15221.1	15285.7	14346.8	13575.8	10349.8
32.5°	17964.7	17977.6	17594.3	17090.4	16763.0	16465.9	16349.6	16534.8	15811.2	15191.0	11215.6
35°	18800.3	18839.0	18472.9	18016.4	17663.2	17870.0	17818.3	17904.4	17559.8	16801.8	12223.4
37.5°	19614.3	19420.5	19028.5	18808.9	18623.7	18963.9	19403.3	19476.5	19541.1	18649.5	13394.9
40°	19747.8	19765.1	19536.8	19691.8	19459.3	19971.8	20992.6	20897.8	21160.5	20381.0	14665.5
42.5°	19558.3	19597.1	19687.5	19907.2	20467.1	21083.0	22599.1	22211.5	22530.2	21836.7	15901.6
45°	19248.2	19088.8	19200.8	20036.4	21005.5	22375.1	24067.8	23766.3	23662.9	23081.5	17374.6
47.5°	17766.6	17930.2	18279.1	19308.5	20764.3	22599.1	25110.1	25041.2	25351.3	24942.1	18714.1
50°	15712.1	15647.5	16319.4	17478.0	19355.9	22159.8	25054.1	25678.6	26346.2	25777.7	19312.8
52.5°	11766.9	12111.4	12688.6	14127.1	16806.1	19765.1	23830.9	24873.2	25415.9	25295.3	18830.4
55°	7438.3	7541.6	7890.5	9600.4	12012.4	15862.9	20428.3	22844.6	23813.7	24265.9	18386.8
57.5°	3613.6	3419.8	3846.2	5220.1	6938.7	10668.6	15755.2	19898.6	22004.7	22823.1	17422.0
60°	1886.5	1959.7	2127.7	2618.7	3587.8	5538.9	9820.1	13261.4	16478.8	17736.4	13205.4
62.5°	1563.5	1589.3	1701.3	1946.8	2386.1	3187.2	5013.4	6464.9	8403.1	9535.8	7511.5
65°	1326.6	1339.5	1460.1	1623.8	1903.7	2244.0	2579.9	2700.5	3269.1	3355.2	2670.4
67.5°	1106.9	1119.8	1249.0	1404.1	1585.0	1675.4	1761.6	1753.0	1817.6	1791.7	1787.4
70°	852.8	865.7	999.2	1162.9	1253.4	1201.7	1468.7	1529.0	1554.8	1576.4	1610.8
72.5°	615.9	641.8	745.1	861.4	814.0	934.6	1210.3	1300.7	1335.2	1348.1	1391.2
75°	447.9	456.5	482.4	447.9	516.8	650.4	852.8	964.8	1007.8	1020.8	1085.4
77.5°	198.1	202.4	206.7	258.4	331.6	404.9	508.2	598.7	659.0	676.2	693.4
80°	103.4	107.7	133.5	176.6	236.9	297.2	370.4	422.1	460.9	465.2	482.4
82.5°	64.6	68.9	94.8	124.9	168.0	219.7	271.3	314.4	344.6	348.9	353.2
85°	30.1	38.8	56.0	77.5	112.0	142.1	146.4	124.9	133.5	137.8	129.2
87.5°	8.6	12.9	17.2	12.9	17.2	17.2	21.5	25.8	25.8	25.8	30.1
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°	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4	4845.4
2.5°	4923.0	4884.2	4733.4	4677.5	4531.0	4556.9	4479.3	4475.0	4457.8	4453.5	4449.2
5°	5043.6	4923.0	4742.1	4604.2	4522.4	4513.8	4457.8	4457.8	4475.0	4487.9	4457.8
7.5°	5241.7	5103.9	4798.1	4668.8	4595.6	4582.7	4543.9	4513.8	4552.6	4539.6	4505.2
10°	5470.0	5228.8	4905.7	4793.7	4673.1	4643.0	4643.0	4655.9	4591.3	4612.9	4578.4
12.5°	5724.1	5401.0	5043.6	4914.3	4772.2	4755.0	4746.4	4651.6	4686.1	4668.8	4582.7
15°	6047.1	5599.2	5220.1	5000.5	4879.9	4802.4	4690.4	4673.1	4651.6	4608.5	4569.8
17.5°	6396.0	5814.5	5302.0	5026.3	4845.4	4789.4	4703.3	4612.9	4548.2	4556.9	4526.7
20°	6693.2	6012.6	5332.1	5052.2	4819.6	4711.9	4578.4	4522.4	4453.5	4449.2	4444.9
22.5°	7046.3	6279.7	5375.2	4983.3	4742.1	4630.1	4539.6	4440.6	4393.2	4332.9	4363.0
25°	7468.4	6383.0	5383.8	4944.5	4686.1	4487.9	4440.6	4332.9	4315.7	4229.5	4246.8
27.5°	7774.2	6439.0	5314.9	4823.9	4556.9	4406.1	4320.0	4242.4	4212.3	4147.7	4130.5
30°	8183.4	6525.2	5168.5	4673.1	4427.6	4259.7	4208.0	4190.8	4104.6	4035.7	4027.1
32.5°	8648.6	6581.2	5073.7	4518.1	4294.1	4164.9	4190.8	4108.9	4001.2	3941.0	3923.7
35°	9019.0	6602.7	4836.8	4341.5	4203.7	4121.8	4091.7	4074.5	3919.4	3863.4	3820.4
37.5°	9583.2	6555.3	4638.7	4216.6	4104.6	4074.5	4048.6	3932.3	3755.7	3673.9	3613.6
40°	10242.2	6542.4	4384.6	4040.0	4009.9	4044.3	3966.8	3785.9	3540.4	3449.9	3406.9
42.5°	10875.3	6632.9	4225.2	3945.3	3906.5	3919.4	3811.7	3540.4	3419.8	3368.1	3299.2
45°	11934.8	6822.4	3962.5	3798.8	3781.6	3773.0	3643.8	3359.5	3290.6	3226.0	3213.1
47.5°	12891.0	6697.5	3794.5	3648.1	3665.3	3617.9	3342.3	3251.8	3174.3	3109.7	3088.2
50°	12947.0	6400.3	3557.6	3531.8	3536.1	3454.3	3191.5	3131.2	3032.2	2989.1	2958.9
52.5°	12654.1	5913.6	3338.0	3346.6	3359.5	3226.0	3006.3	2963.3	2881.4	2821.1	2803.9
55°	11831.5	5155.5	3122.6	3157.1	3191.5	2937.4	2868.5	2760.8	2696.2	2610.1	2614.4
57.5°	10423.1	4152.0	2821.1	2877.1	2950.3	2670.4	2618.7	2485.2	2390.4	2321.5	2312.9
60°	6986.0	2954.6	2368.9	2390.4	2554.1	2442.1	2437.8	2304.3	2175.1	2114.8	2080.3
62.5°	4121.8	2256.9	2045.8	2024.3	2020.0	2084.6	2192.3	2144.9	1976.9	1860.6	1895.1
65°	2157.8	1951.1	1903.7	1830.5	1787.4	1770.2	1852.0	1873.6	1761.6	1636.7	1628.1
67.5°	1813.3	1813.3	1774.5	1748.7	1688.4	1615.1	1563.5	1494.5	1477.3	1442.9	1399.8
70°	1649.6	1692.7	1679.7	1619.5	1567.8	1485.9	1352.4	1240.4	1132.8	1094.0	1119.8
72.5°	1438.6	1481.6	1481.6	1451.5	1382.6	1257.7	1128.4	999.2	908.8	839.9	831.3
75°	1106.9	1128.4	1180.1	1145.7	1055.2	977.7	844.2	710.7	624.5	559.9	547.0
77.5°	706.4	740.8	740.8	736.5	671.9	598.7	512.5	417.8	353.2	305.8	292.9
80°	469.5	491.0	508.2	491.0	447.9	391.9	327.3	262.7	215.4	176.6	168.0
82.5°	344.6	370.4	383.3	366.1	323.0	280.0	232.6	185.2	137.8	107.7	99.1
85°	133.5	137.8	155.1	185.2	180.9	176.6	142.1	103.4	77.5	56.0	51.7
87.5°	34.5	30.1	34.5	34.5	30.1	25.8	25.8	25.8	25.8	12.9	17.2
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)