

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: P532529

Luminaire Tested: **GALN-SA7D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23366 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

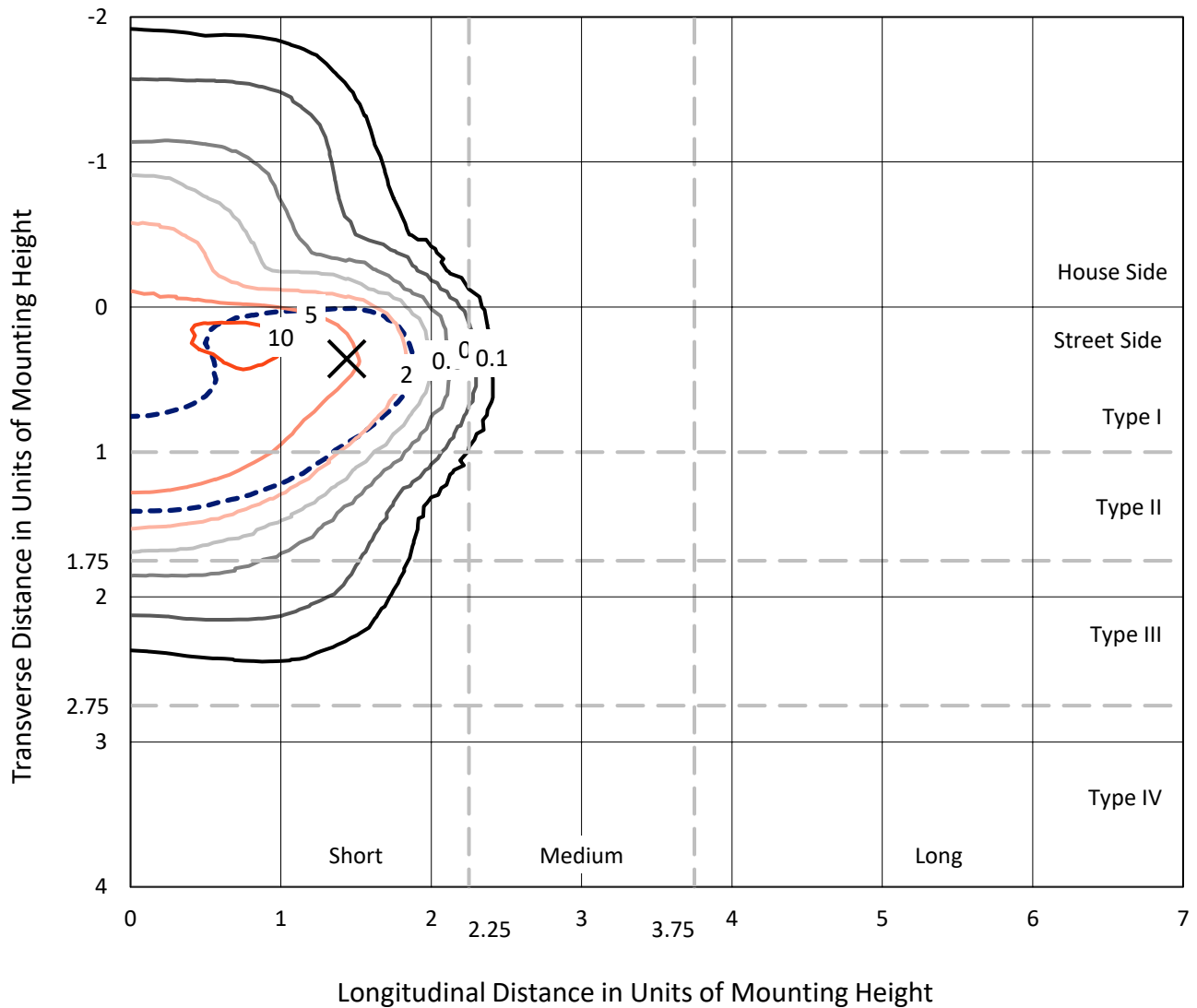
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

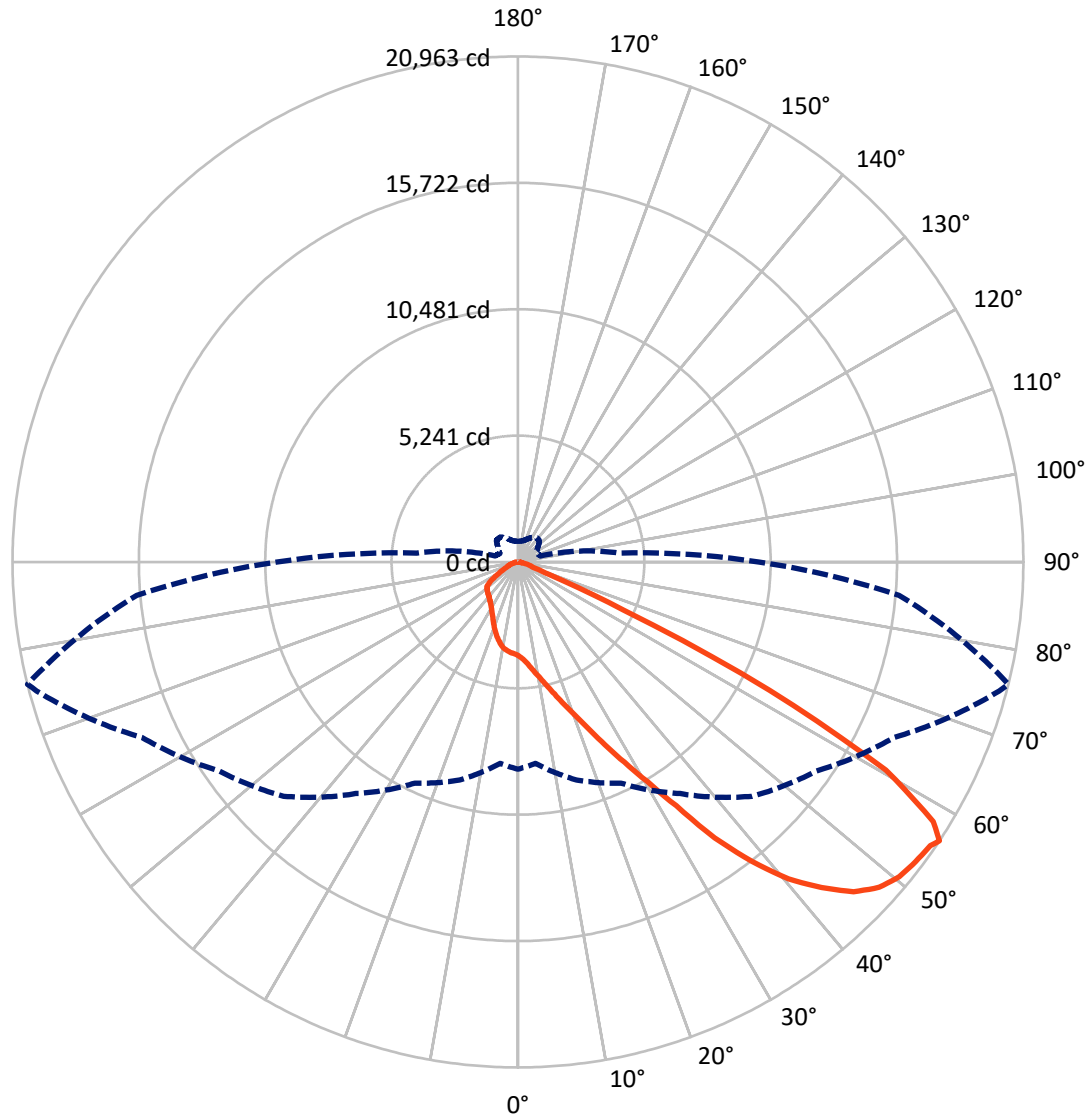
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3670.7	0.0	3670.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	19695.3	0.0	19695.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	23366.0	0.0	23366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.8	1.7
10°-20°	1258.7	5.4
20°-30°	2282.3	9.8
30°-40°	3936.0	16.8
40°-50°	6394.2	27.4
50°-60°	6739.7	28.8
60°-70°	2059.3	8.8
70°-80°	264.0	1.1
80°-90°	40.1	0.2
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°	23366.0	100.0
0°-180°	23366.0	100.0

Coefficient of Utilization

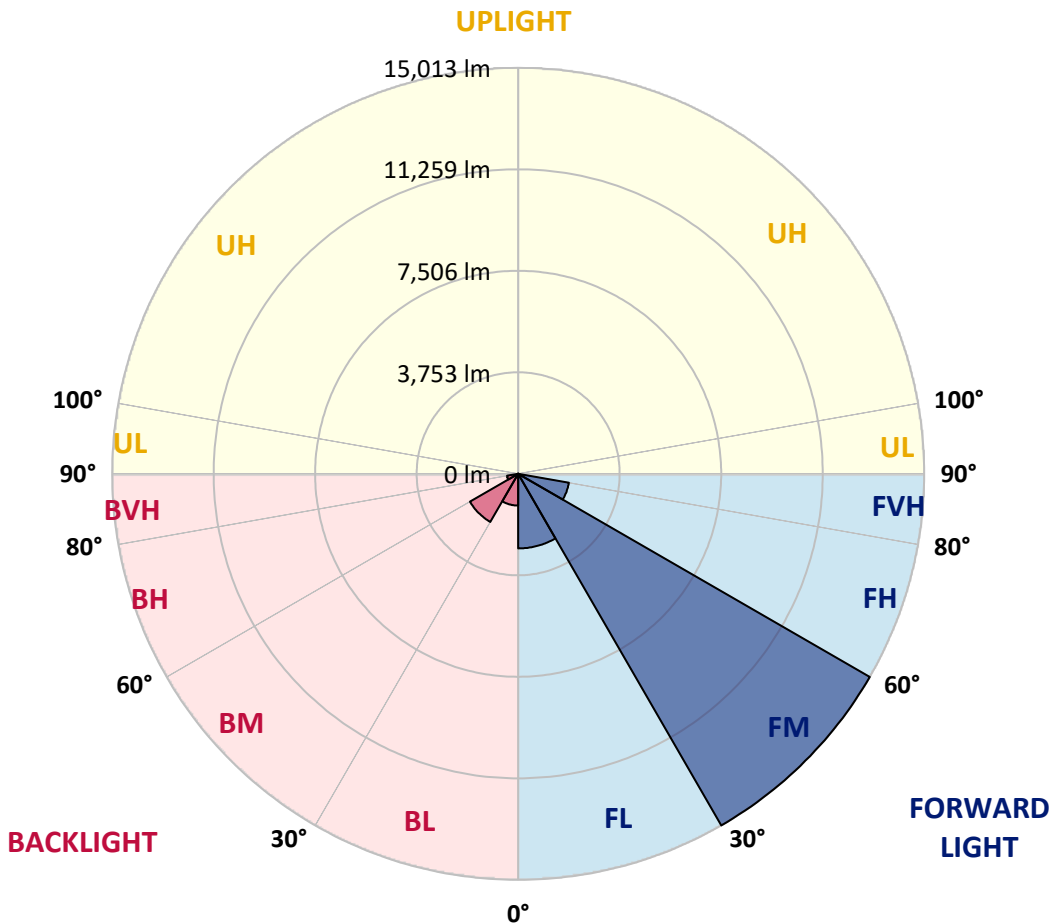


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2758.6	11.8			
FM (30°-60°)	15012.6	64.2			
FH (60°-80°)	1904.5	8.2			G2/5000
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	1174.3	5.0	B3/2500		
BM (30°-60°)	2057.2	8.8	B2/2500		
BH (60°-80°)	418.8	1.8	B1/500		G1/500
BVH (80°-90°)	20.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3
2.5°	4479.4	4376.0	4380.3	4371.7	4358.8	4311.4	4169.3	4147.7	4053.0	4027.1	3941.0
5°	5017.8	4927.3	4979.0	4901.5	4828.3	4785.2	4552.6	4444.9	4294.2	4238.2	4117.6
7.5°	5353.7	5310.6	5293.4	5297.7	5228.8	5121.1	5017.8	4780.9	4578.4	4535.4	4281.3
10°	5517.4	5491.5	5517.4	5504.5	5534.6	5547.5	5366.6	5224.5	4927.3	4854.1	4457.8
12.5°	5556.2	5607.8	5629.4	5685.4	5758.6	5883.5	5870.6	5676.7	5280.5	5233.1	4729.2
15°	5650.9	5694.0	5672.4	5762.9	5900.7	6111.8	6223.8	6193.6	5767.2	5681.1	5043.6
17.5°	5737.0	5659.5	5732.7	5913.6	6051.5	6374.5	6645.8	6770.8	6297.0	6197.9	5332.2
20°	5853.3	5831.8	5818.9	5909.3	6154.8	6585.5	7123.9	7352.2	6891.4	6788.0	5745.7
22.5°	6206.5	6210.8	6202.2	6068.7	6245.3	6732.0	7541.7	8106.0	7602.0	7515.9	6215.1
25°	6671.7	6615.7	6572.6	6464.9	6443.4	6865.5	7963.8	9027.7	8454.8	8394.5	6723.4
27.5°	7162.7	7162.7	7033.5	6934.4	6796.6	7197.2	8351.5	9923.5	9484.2	9402.4	7167.0
30°	7696.8	7726.9	7709.7	7498.7	7412.5	7558.9	8747.7	11069.2	10664.4	10561.0	7899.2
32.5°	8485.0	8420.4	8493.6	8317.0	8062.9	8192.1	9372.2	12094.3	12197.7	12051.2	8859.7
35°	9527.3	9488.5	9441.1	9152.6	8851.1	8954.4	10255.2	13356.3	14123.0	14049.7	9828.8
37.5°	10461.9	10440.4	10401.6	10203.5	9854.6	9979.5	11258.7	14670.0	16000.9	15759.7	11198.4
40°	11443.9	11560.2	11435.3	11258.7	10940.0	11215.7	12438.9	15449.5	17581.6	17288.7	12245.1
42.5°	12774.8	12684.4	12740.4	12417.4	12245.1	12546.6	13623.3	16229.1	18809.1	18460.2	13356.3
45°	14191.9	14196.2	14045.4	13942.1	13494.1	13821.5	14351.2	16659.8	19786.8	19515.4	14196.2
47.5°	15100.7	15096.4	15260.0	15423.7	14962.8	14639.8	14846.6	17069.0	20290.7	20165.8	14502.0
50°	14958.5	15001.6	15212.7	15824.3	16065.5	15630.4	15311.7	16948.4	20519.0	20506.1	14764.7
52.5°	13011.7	13153.9	13507.0	14390.0	15604.6	16143.0	15798.4	17172.4	20631.0	20652.5	15156.7
55°	9906.3	9983.8	10655.8	11728.2	13072.0	14915.5	15604.6	17349.0	20717.1	20755.9	15630.4
56°	8592.7	8385.9	9355.0	10117.4	11723.9	13739.6	15113.6	17211.1	20665.4	20962.6	15867.3
57.5°	6486.5	6348.7	7132.5	8084.4	9630.7	11758.4	13588.9	16560.8	20316.6	20312.3	15527.1
60°	3945.3	3807.5	4410.5	4970.4	5836.1	7240.2	9182.7	13188.3	17176.7	17538.5	12572.4
62.5°	2347.4	2433.5	3027.9	3368.1	3648.1	3794.5	4750.7	7838.9	11461.2	11719.6	7800.1
65°	1563.5	1593.6	2041.6	2601.5	2726.4	2170.8	1933.9	3174.3	4970.4	4811.0	3217.4
67.5°	964.8	1033.7	1369.7	1955.4	2166.5	1585.0	917.4	1184.5	1369.7	1369.7	930.3
70°	585.8	620.2	913.1	1330.9	1485.9	1020.8	667.6	667.6	659.0	646.1	555.6
72.5°	280.0	301.5	465.2	684.8	697.7	538.4	516.9	564.2	551.3	547.0	460.9
75°	120.6	129.2	163.7	215.4	245.5	228.3	314.4	404.9	417.8	404.9	331.6
77.5°	38.8	43.1	60.3	77.5	81.8	99.1	133.5	168.0	193.8	180.9	163.7
80°	4.3	8.6	17.2	38.8	60.3	77.5	99.1	112.0	124.9	124.9	116.3
82.5°	4.3	4.3	17.2	34.5	56.0	73.2	94.8	107.7	124.9	129.2	120.6
85°	0.0	4.3	12.9	30.1	47.4	47.4	43.1	43.1	30.1	30.1	30.1
87.5°	0.0	0.0	4.3	4.3	4.3	8.6	8.6	8.6	8.6	8.6	8.6
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°	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3	3889.3
2.5°	3923.8	3915.1	3798.9	3725.6	3686.9	3609.3	3562.0	3527.5	3501.7	3471.5	3475.8
5°	3975.4	3945.3	3751.5	3618.0	3458.6	3372.5	3299.2	3238.9	3200.2	3191.6	3174.3
7.5°	4121.9	3962.5	3669.6	3428.4	3226.0	3139.9	3075.3	3036.5	3053.7	3015.0	3045.1
10°	4233.9	3997.0	3570.6	3221.7	3019.3	2954.7	2920.2	2950.4	2993.4	2976.2	2954.7
12.5°	4371.7	4031.4	3411.2	3023.6	2834.1	2786.7	2847.0	2903.0	2989.1	3023.6	2980.5
15°	4526.8	4070.2	3208.8	2795.3	2674.7	2713.5	2816.8	2915.9	3002.0	3045.1	3071.0
17.5°	4716.3	4057.3	3010.7	2614.4	2524.0	2635.9	2760.8	2851.3	2980.5	3045.1	3027.9
20°	4892.9	4014.2	2791.0	2433.5	2437.8	2541.2	2644.6	2791.0	2859.9	2946.1	2915.9
22.5°	5060.8	3936.7	2562.7	2308.6	2308.6	2468.0	2519.6	2614.4	2674.7	2717.8	2713.5
25°	5297.7	3790.2	2373.2	2188.0	2239.7	2343.1	2386.1	2416.3	2390.4	2424.9	2429.2
27.5°	5465.7	3639.5	2218.2	2080.3	2175.1	2252.6	2239.7	2222.5	2162.2	2114.8	2144.9
30°	5646.6	3462.9	2084.6	2007.1	2058.8	2127.7	2076.0	2024.3	1929.6	1852.1	1856.4
32.5°	5905.0	3381.1	1968.3	1921.0	1989.9	1998.5	1942.5	1865.0	1770.2	1697.0	1692.7
35°	6387.4	3329.4	1869.3	1865.0	1877.9	1882.2	1826.2	1731.5	1692.7	1632.4	1653.9
37.5°	6869.8	3303.5	1800.4	1783.1	1778.8	1783.1	1718.5	1628.1	1701.3	1697.0	1705.6
40°	7485.7	3419.8	1701.3	1679.8	1684.1	1684.1	1602.2	1576.4	1705.6	1718.5	1722.8
42.5°	8110.3	3566.3	1636.7	1567.8	1585.0	1585.0	1541.9	1511.8	1602.2	1516.1	1503.2
45°	8653.0	3781.6	1567.8	1455.8	1498.9	1520.4	1507.5	1455.8	1399.8	1253.4	1253.4
47.5°	8829.5	3971.1	1485.9	1348.1	1382.6	1477.3	1438.6	1330.9	1231.8	1111.2	1102.6
50°	9139.7	4177.9	1421.3	1223.2	1296.4	1412.7	1374.0	1266.3	1154.3	1068.2	1072.5
52.5°	9458.4	4414.8	1300.7	1076.8	1167.2	1361.0	1361.0	1240.4	1068.2	1007.9	999.2
55°	9936.5	4406.2	1085.4	883.0	1042.3	1283.5	1305.0	1111.2	956.2	908.8	908.8
56°	10005.4	4208.0	977.7	827.0	986.3	1262.0	1266.3	1076.8	913.1	861.4	861.4
57.5°	9488.5	3798.9	857.1	758.0	917.4	1223.2	1227.5	1046.6	878.6	805.4	796.8
60°	7300.5	2571.3	715.0	676.2	831.3	1102.6	1124.2	951.9	771.0	715.0	710.7
62.5°	4121.9	1425.6	628.8	611.6	715.0	938.9	1003.6	831.3	654.7	624.5	633.1
65°	1882.2	783.9	529.8	495.3	577.2	723.6	809.7	684.8	538.4	503.9	503.9
67.5°	689.1	534.1	452.2	391.9	404.9	469.5	525.5	443.6	357.5	305.8	318.7
70°	491.0	447.9	396.3	340.3	314.4	305.8	301.5	249.8	176.6	137.8	146.4
72.5°	396.3	370.4	331.6	288.6	245.5	206.7	176.6	129.2	81.8	56.0	51.7
75°	284.3	271.3	241.2	206.7	172.3	146.4	120.6	81.8	43.1	21.5	21.5
77.5°	146.4	146.4	142.1	129.2	107.7	86.1	68.9	47.4	25.8	8.6	8.6
80°	112.0	120.6	124.9	112.0	99.1	77.5	56.0	34.5	17.2	4.3	4.3
82.5°	107.7	124.9	133.5	116.3	99.1	73.2	56.0	34.5	17.2	4.3	4.3
85°	25.8	25.8	38.8	43.1	56.0	60.3	47.4	30.1	12.9	4.3	4.3
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	4.3	4.3	4.3	4.3	0.0
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)