

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: P457638

Luminaire Tested: **GALN-SA9A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35481 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

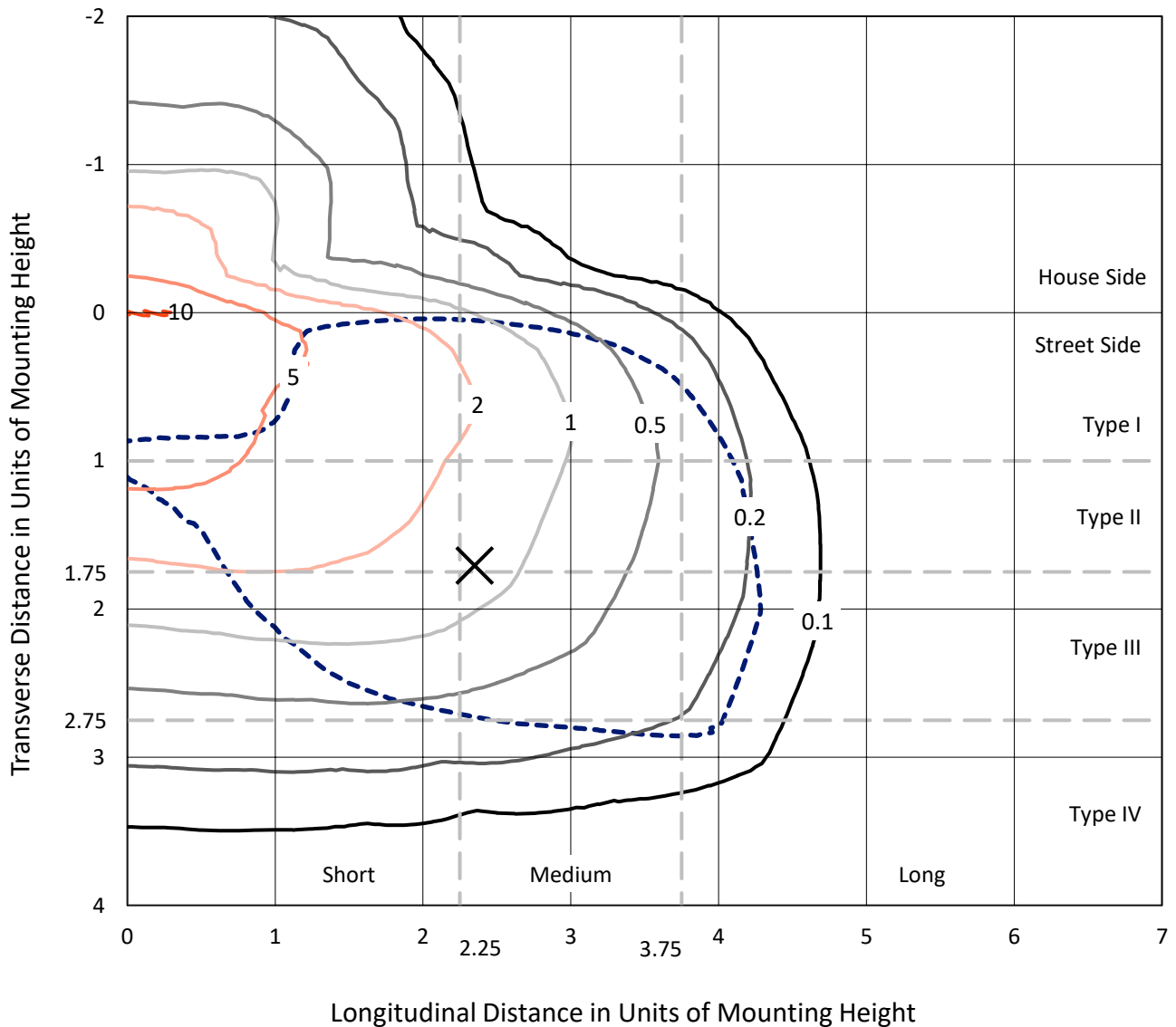
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

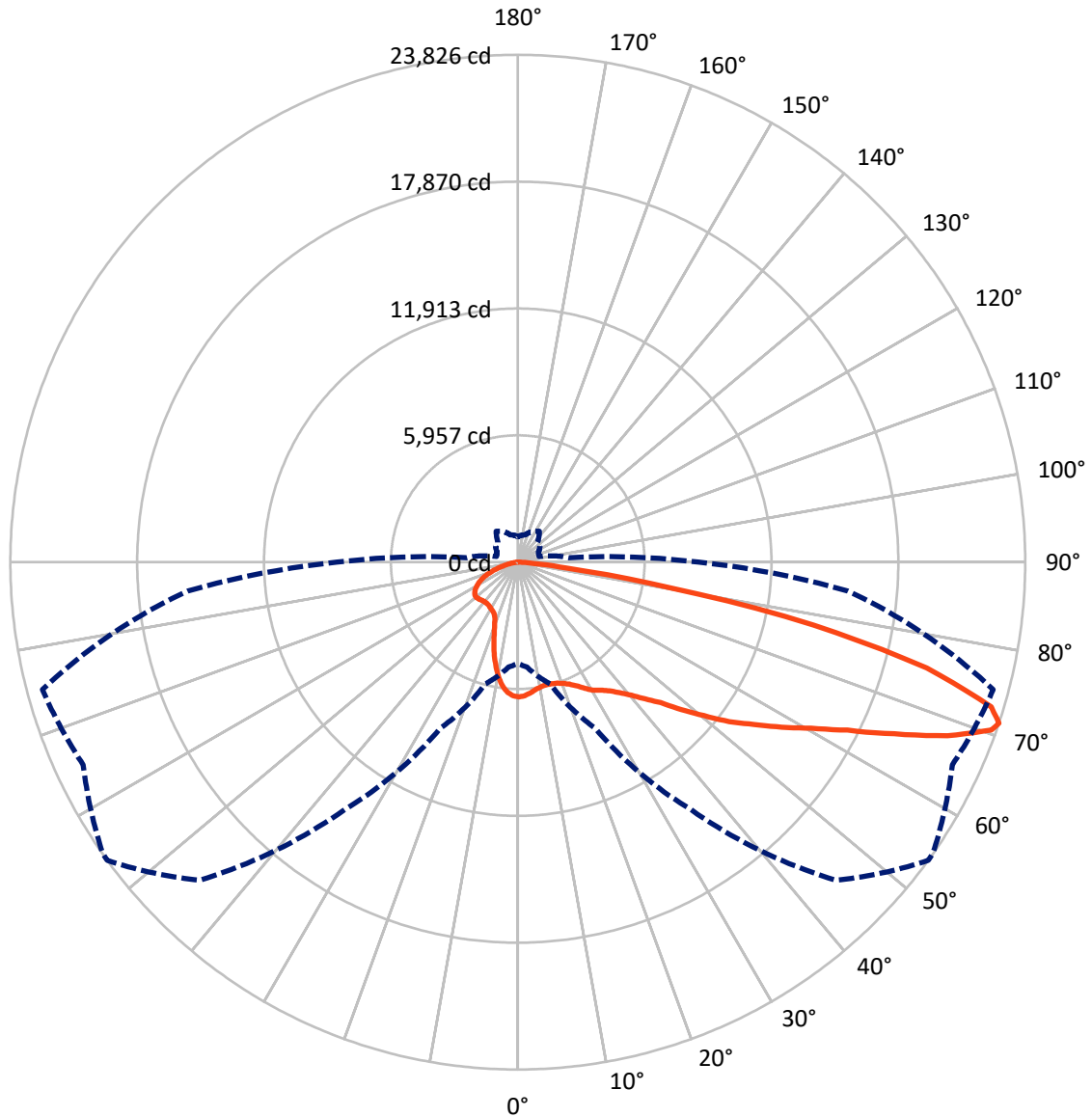
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6405.9	0.0	6405.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29075.1	0.0	29075.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	35481.0	0.0	35481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.1	1.6
10°-20°	1489.6	4.2
20°-30°	2480.2	7.0
30°-40°	3667.4	10.3
40°-50°	5165.7	14.6
50°-60°	6917.1	19.5
60°-70°	8718.5	24.6
70°-80°	5954.7	16.8
80°-90°	523.7	1.5
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°	35481.0	100.0
0°-180°	35481.0	100.0

Coefficient of Utilization



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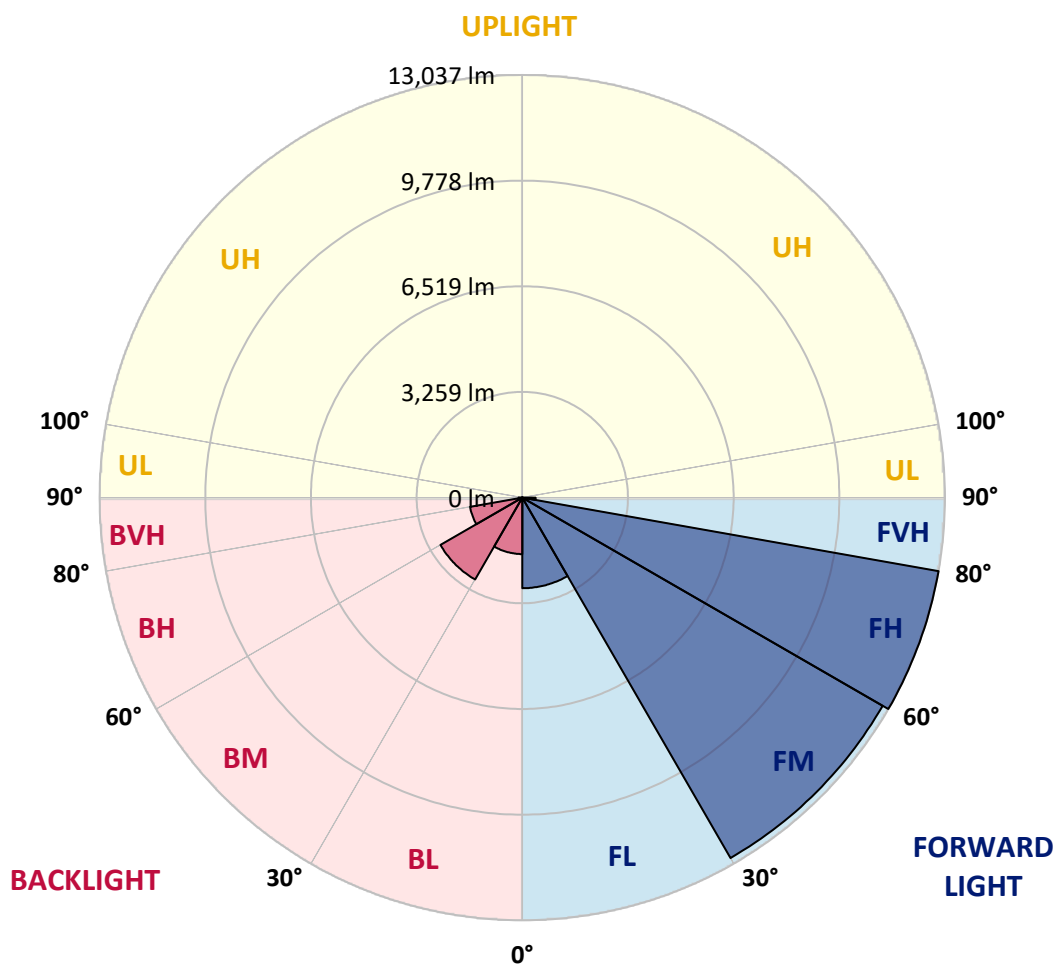
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2792.9	7.9			
FM	(30°-60°)	12835.7	36.2			
FH	(60°-80°)	13037.1	36.7			G5
FVH	(80°-90°)	409.3	1.2			G3/500
BL	(0°-30°)	1741.0	4.9	B3/2500		
BM	(30°-60°)	2914.5	8.2	B3/5000		
BH	(60°-80°)	1636.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	114.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3
2.5°	6115.7	6144.4	6152.1	6171.3	6211.5	6244.1	6276.7	6272.8	6318.8	6338.0	6355.3
5°	5843.5	5851.2	5879.9	5918.3	5989.2	6079.3	6167.4	6169.3	6282.4	6372.5	6416.6
7.5°	5644.2	5669.1	5688.3	5728.5	5803.3	5901.0	6040.9	6052.4	6253.7	6431.9	6525.8
10°	5513.9	5542.6	5563.7	5613.5	5688.3	5797.5	5948.9	5970.0	6232.6	6525.8	6690.6
12.5°	5395.1	5423.8	5443.0	5508.1	5605.9	5740.0	5910.6	5935.5	6240.3	6635.1	6870.8
15°	5467.9	5490.9	5483.2	5502.4	5567.6	5720.9	5925.9	5950.9	6269.0	6740.5	7049.0
17.5°	5791.8	5811.0	5747.7	5674.9	5644.2	5757.3	5973.9	6000.7	6326.5	6849.7	7231.1
20°	6269.0	6320.8	6182.8	6019.9	5872.3	5887.6	6073.5	6102.3	6407.0	6959.0	7417.0
22.5°	6890.0	6928.3	6759.6	6491.3	6219.2	6079.3	6223.0	6240.3	6527.7	7100.8	7620.2
25°	7620.2	7643.2	7409.3	7064.4	6671.5	6407.0	6428.1	6458.7	6727.1	7261.8	7800.3
27.5°	8329.3	8402.1	8131.9	7710.2	7192.8	6752.0	6709.8	6729.0	6943.6	7351.9	7924.9
30°	9170.6	9164.9	8879.3	8390.6	7727.5	7127.6	6976.2	6972.4	7060.5	7395.9	8015.0
32.5°	9841.4	9920.0	9640.2	9107.4	8338.9	7516.7	7160.2	7152.5	7150.6	7472.6	8149.1
35°	10604.2	10615.7	10358.9	9822.3	9000.1	8005.4	7417.0	7378.7	7334.6	7637.4	8331.2
37.5°	11286.5	11340.2	11104.4	10502.6	9649.8	8513.3	7769.7	7744.7	7610.6	7923.0	8622.5
40°	11819.3	11859.6	11717.7	11144.7	10289.9	9061.4	8218.1	8172.1	8009.2	8390.6	9011.6
42.5°	11993.7	12076.1	12131.7	11850.0	11025.9	9711.1	8770.1	8712.6	8588.0	9099.7	9460.0
45°	12007.1	12137.5	12430.7	12444.1	11765.6	10489.2	9414.1	9373.8	9364.2	10008.2	10090.6
47.5°	11905.6	12037.8	12530.3	12796.7	12424.9	11275.0	10343.6	10280.3	10286.1	11131.3	10797.8
50°	11660.2	11817.4	12415.4	13022.9	12940.5	12091.5	11324.8	11303.8	11422.6	12413.4	11531.8
52.5°	11198.4	11388.1	12296.5	13164.7	13323.8	12794.8	12440.3	12380.9	12681.8	13804.8	12334.9
55°	9920.0	10205.6	11861.5	13243.3	13687.9	13467.5	13444.5	13551.9	13950.5	15322.7	13218.4
57.5°	9253.1	9467.7	10916.6	13256.7	14147.9	14249.5	14617.5	14644.3	15341.9	16934.6	14216.9
60°	8888.9	9078.7	10399.2	13168.6	14789.9	15217.3	15817.2	15913.0	16700.7	18680.5	15251.8
62.5°	8570.8	8733.7	10088.7	12863.8	15514.4	16652.8	17371.5	17417.5	18243.6	20608.6	16273.4
65°	7821.4	8007.3	9463.9	12559.1	16139.2	18446.7	19433.7	19380.1	19886.0	22272.1	16913.5
67.5°	6811.4	7047.1	8296.7	11506.9	16447.8	20407.3	21756.6	21689.5	21507.4	23362.6	17097.5
70°	5521.6	5648.0	6803.7	9688.1	15215.4	21436.5	23590.7	23519.8	22511.7	23506.4	16227.4
71°	4751.1	4948.5	5924.0	8605.3	14190.1	21122.2	23826.4	23807.3	22513.6	23109.7	15571.9
72.5°	3708.5	3829.2	4691.7	6667.6	12060.8	19336.0	23243.8	23316.6	22024.9	22007.6	14220.7
75°	2345.8	2399.5	2943.8	3925.1	6617.8	13693.7	19842.0	20039.4	19556.4	18013.6	10575.5
77.5°	1362.7	1431.7	1763.2	2313.3	2859.5	7432.3	14197.7	14412.4	13588.3	9918.1	4329.5
80°	793.4	870.1	1161.4	1343.5	1312.8	2757.9	7229.2	7595.3	5883.8	2504.9	1215.1
82.5°	440.8	492.6	816.4	818.4	699.5	900.8	2274.9	2380.3	1678.9	1010.0	496.4
85°	320.1	362.2	527.0	477.2	335.4	387.1	791.5	829.9	678.5	425.5	161.0
87.5°	113.1	161.0	289.4	230.0	92.0	80.5	228.1	185.9	172.5	118.8	36.4
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°	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3	6330.3
2.5°	6364.8	6368.7	6349.5	6315.0	6280.5	6236.4	6186.6	6148.3	6131.0	6129.1	6127.2
5°	6433.8	6443.4	6370.6	6263.3	6144.4	5998.8	5874.2	5732.4	5696.0	5638.5	5655.7
7.5°	6545.0	6539.2	6395.5	6167.4	5889.5	5581.0	5320.3	5168.9	5011.8	4967.7	4969.6
10°	6704.1	6667.6	6395.5	5971.9	5508.1	5050.1	4685.9	4456.0	4331.4	4227.9	4189.6
12.5°	6872.7	6780.7	6334.2	5697.9	5017.5	4456.0	4065.0	3754.5	3674.0	3589.7	3591.6
15°	7033.7	6880.4	6213.4	5312.7	4488.5	3821.6	3442.1	3256.2	3231.3	3240.9	3239.0
17.5°	7179.4	6951.3	6029.4	4883.3	3871.4	3277.3	3076.0	3089.5	3156.5	3204.5	3210.2
20°	7326.9	6993.5	5755.4	4308.4	3288.8	2947.6	2955.3	3060.7	3162.3	3227.5	3237.0
22.5°	7466.8	7012.6	5433.4	3752.6	2867.1	2807.7	2920.8	3033.9	3133.5	3196.8	3206.4
25°	7558.8	6968.5	4977.3	3171.9	2660.2	2757.9	2876.7	2972.6	3056.9	3122.0	3137.4
27.5°	7583.8	6826.7	4411.9	2702.3	2564.3	2710.0	2819.2	2890.1	2955.3	3016.6	3028.1
30°	7570.3	6617.8	3790.9	2426.3	2508.8	2654.4	2738.7	2790.5	2869.1	2917.0	2926.6
32.5°	7549.3	6374.4	3143.1	2278.8	2462.8	2602.7	2652.5	2698.5	2696.6	2677.4	2690.8
35°	7556.9	6083.1	2618.0	2190.6	2422.5	2564.3	2606.5	2549.0	2384.2	2376.5	2368.8
37.5°	7597.2	5795.6	2236.6	2129.3	2401.4	2558.6	2581.6	2317.1	2171.4	2104.4	2087.1
40°	7700.7	5460.2	1985.5	2083.3	2399.5	2602.7	2468.5	2200.2	1920.4	1790.0	1780.5
42.5°	7838.7	5130.6	1832.2	2054.5	2422.5	2669.7	2422.5	2035.4	1730.6	1654.0	1642.5
45°	8043.7	4753.0	1747.9	2041.1	2457.0	2694.7	2407.2	1914.6	1654.0	1592.6	1592.6
47.5°	8275.6	4392.7	1701.9	2031.5	2501.1	2677.4	2271.1	1876.3	1617.6	1625.2	1661.6
50°	8505.6	4080.3	1667.4	2010.5	2539.4	2667.8	2215.5	1874.4	1627.1	1724.9	1790.0
52.5°	8772.0	3859.9	1625.2	1976.0	2539.4	2606.5	2198.3	1912.7	1654.0	1682.7	1711.5
55°	9094.0	3790.9	1571.6	1901.2	2493.4	2453.2	2188.7	1968.3	1673.1	1606.1	1617.6
57.5°	9519.5	3902.1	1519.8	1807.3	2388.0	2294.1	2184.9	1983.6	1629.1	1573.5	1562.0
60°	10013.9	4122.5	1504.5	1711.5	2244.3	2158.0	2161.9	1939.5	1567.7	1510.2	1519.8
62.5°	10360.8	4254.7	1494.9	1638.6	2087.1	2008.5	2106.3	1885.9	1540.9	1491.1	1500.7
65°	10360.8	4093.7	1406.7	1527.5	1884.0	1828.4	2039.2	1818.8	1506.4	1448.9	1439.3
67.5°	9967.9	3624.2	1272.6	1360.7	1659.7	1623.3	1945.3	1738.3	1454.7	1410.6	1387.6
70°	8944.5	2748.3	1103.9	1165.3	1376.1	1408.7	1824.5	1629.1	1368.4	1314.7	1280.2
71°	8494.1	2393.8	1033.0	1065.6	1266.8	1314.7	1767.1	1583.1	1330.1	1253.4	1192.1
72.5°	7625.9	2016.2	925.7	939.1	1082.8	1169.1	1646.3	1494.9	1257.3	1148.0	1079.0
75°	5793.7	1471.9	745.5	737.9	801.1	927.6	1393.3	1332.0	1102.0	954.4	914.2
77.5°	2503.0	801.1	557.7	563.5	544.3	703.4	1096.3	1144.2	944.9	776.2	739.8
80°	759.0	461.9	381.4	389.1	364.1	471.5	772.4	896.9	759.0	603.7	553.9
82.5°	389.1	276.0	260.6	256.8	231.9	266.4	467.6	613.3	542.4	377.6	333.5
85°	168.7	147.6	128.4	124.6	109.2	95.8	166.7	306.6	287.5	210.8	201.2
87.5°	42.2	38.3	24.9	23.0	13.4	1.9	0.0	0.0	0.0	0.0	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)