

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: P456287

Luminaire Tested: **GALN-SA7C-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48879 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

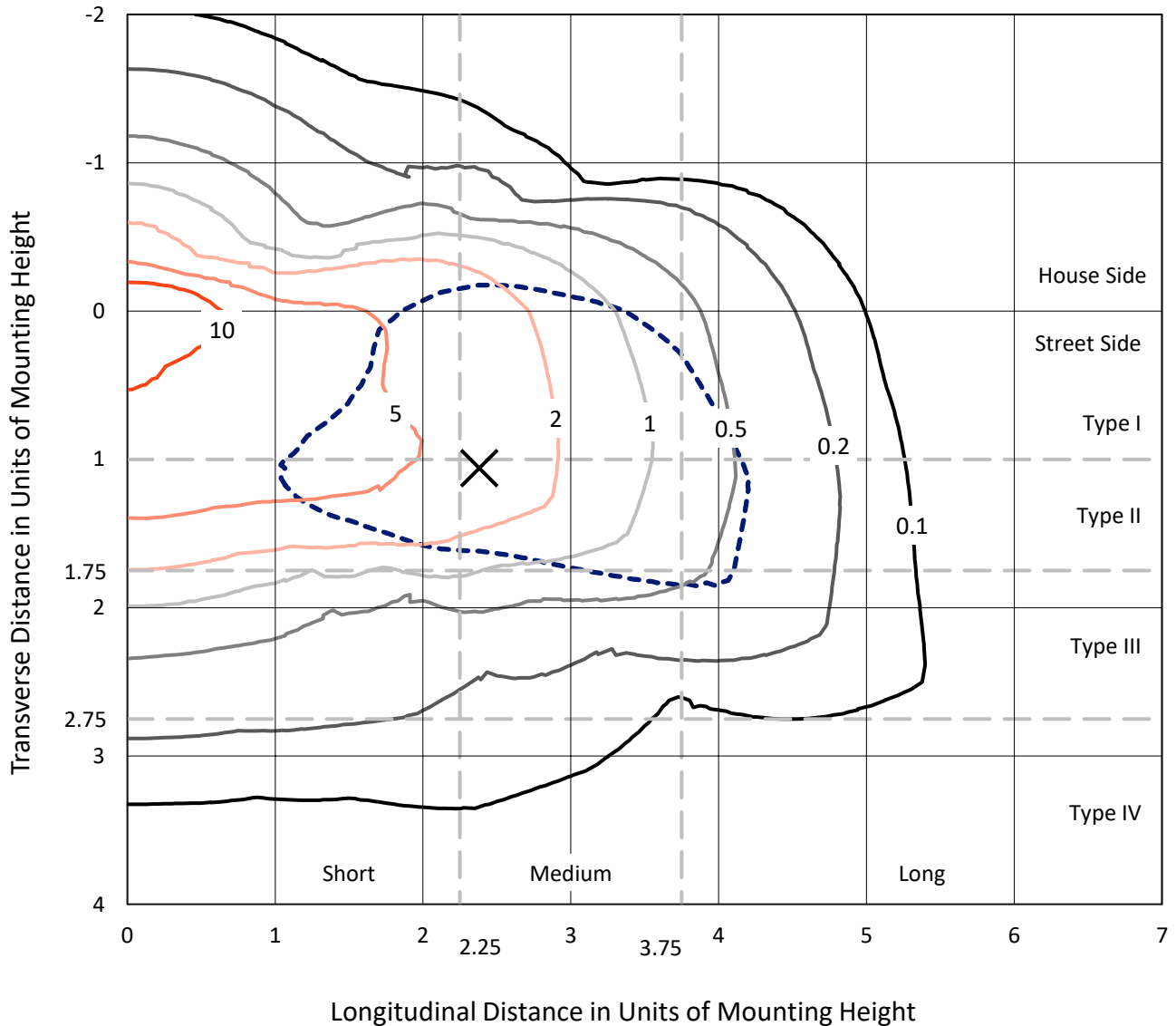




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Iso-Footcandle Lines of Horizontal Illumination

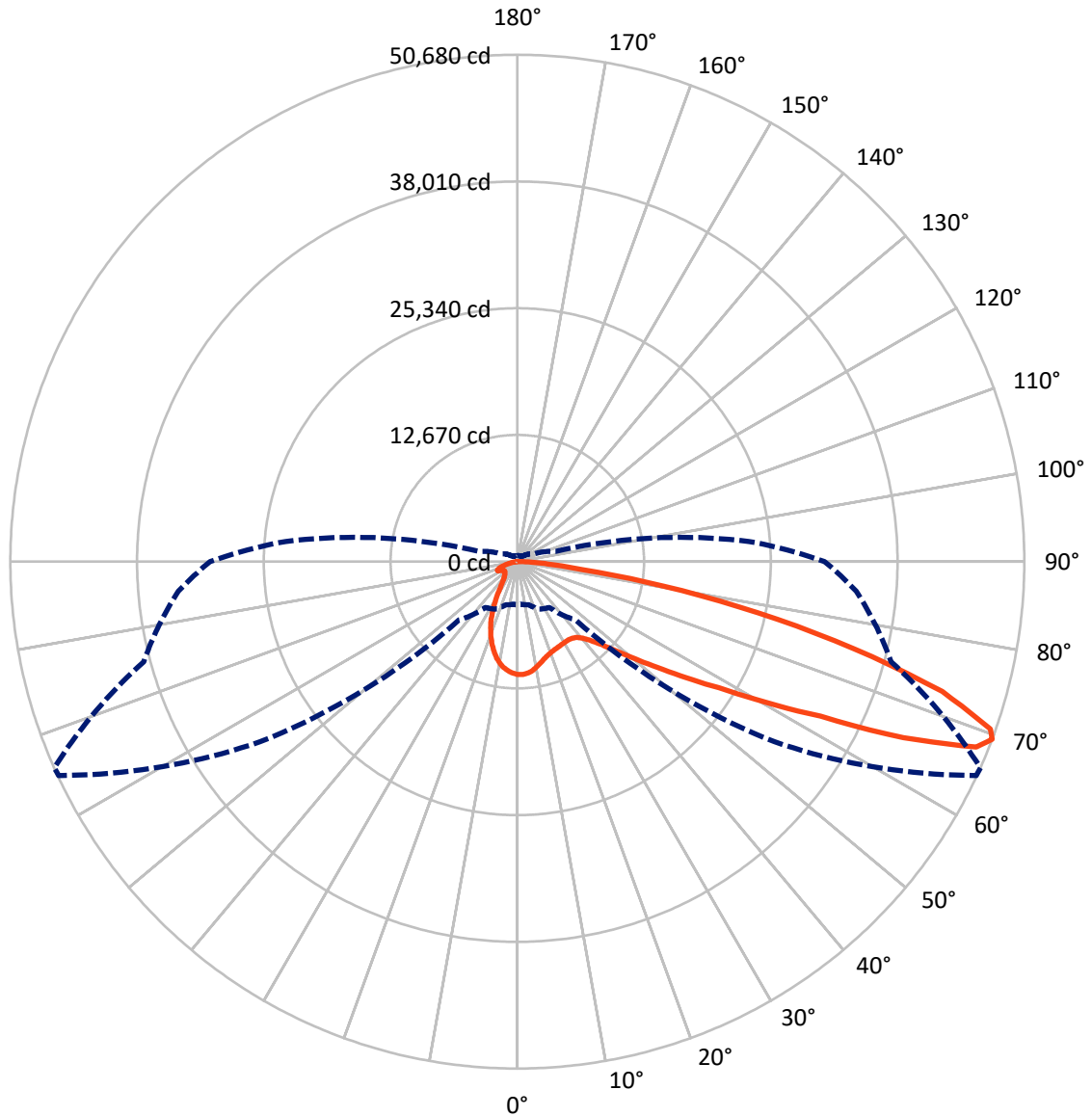
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9192.3	0.0	9192.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39686.7	0.0	39686.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	48879.0	0.0	48879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.2	2.0
10°-20°	2324.9	4.8
20°-30°	3165.1	6.5
30°-40°	4253.2	8.7
40°-50°	6350.8	13.0
50°-60°	10101.9	20.7
60°-70°	12424.8	25.4
70°-80°	8084.2	16.5
80°-90°	1193.8	2.4
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°	48879.0	100.0
0°-180°	48879.0	100.0

Coefficient of Utilization



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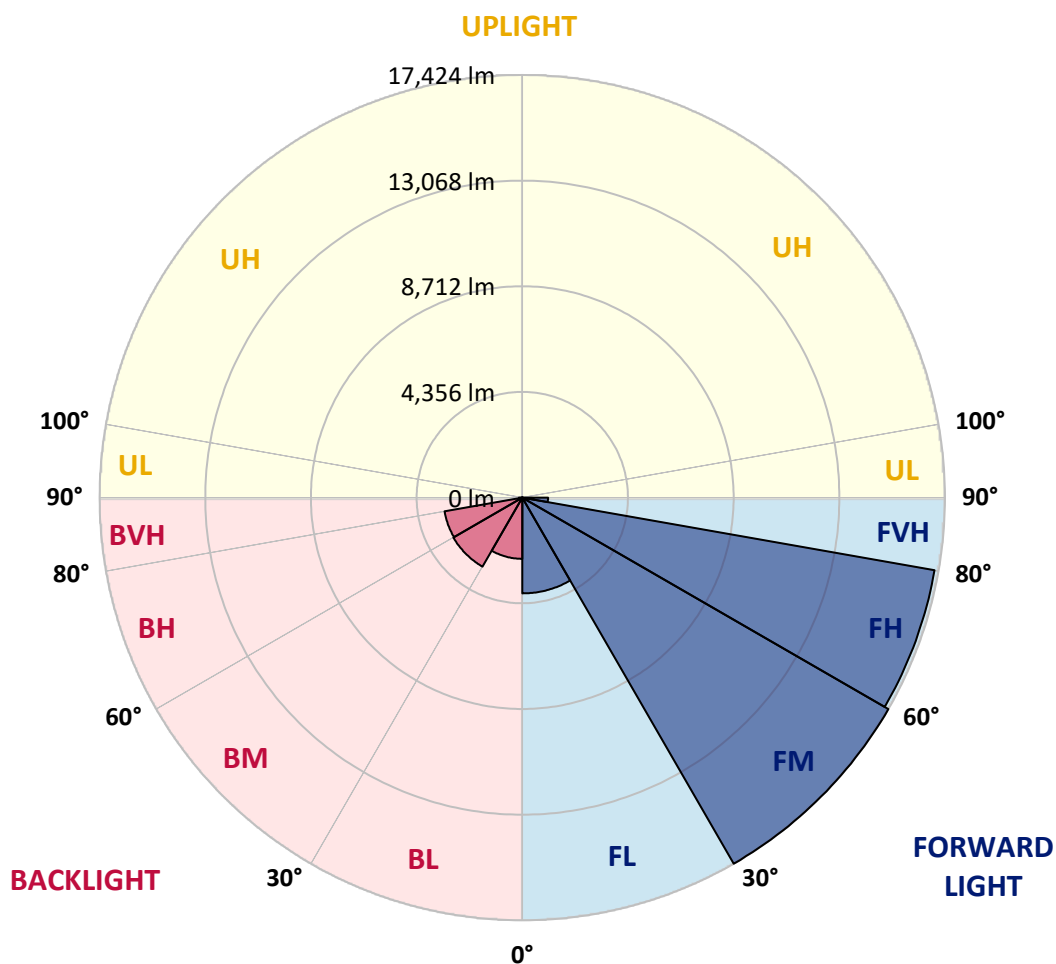
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3946.9	8.1			
FM	(30°-60°)	17423.9	35.6			
FH	(60°-80°)	17254.5	35.3			G5
FVH	(80°-90°)	1061.3	2.2			G5
BL	(0°-30°)	2523.3	5.2	B4/5000		
BM	(30°-60°)	3282.1	6.7	B3/5000		
BH	(60°-80°)	3254.5	6.7	B4/5000		G4/5000
BVH	(80°-90°)	132.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5
2.5°	10892.3	10935.6	10984.4	11038.5	11141.3	11198.2	11238.8	11284.8	11290.2	11314.6	11295.6
5°	10088.4	10139.8	10212.9	10315.8	10470.1	10711.0	10960.0	11163.0	11187.4	11301.1	11333.5
7.5°	9417.1	9446.9	9506.4	9671.5	9890.8	10158.8	10521.5	10932.9	10992.5	11263.2	11357.9
10°	8870.3	8900.1	8970.5	9141.0	9357.5	9693.2	10091.1	10632.5	10681.2	11146.8	11363.3
12.5°	8461.6	8488.6	8564.4	8732.3	8981.3	9295.3	9733.8	10307.6	10378.0	10992.5	11311.9
15°	8150.3	8201.7	8264.0	8402.0	8664.6	8967.8	9392.7	10009.9	10066.7	10830.1	11276.7
17.5°	8017.7	8042.0	8085.3	8212.5	8404.7	8702.5	9130.2	9777.1	9844.8	10716.4	11268.6
20°	8023.1	8047.4	8055.6	8125.9	8264.0	8521.1	8943.4	9593.0	9674.2	10616.2	11282.1
22.5°	8207.1	8209.8	8180.1	8155.7	8209.8	8423.7	8810.8	9455.0	9549.7	10572.9	11292.9
25°	8491.4	8540.1	8496.8	8383.1	8282.9	8385.8	8759.3	9379.2	9468.5	10510.7	11279.4
27.5°	8951.5	8959.6	8924.4	8770.2	8510.3	8434.5	8737.7	9322.4	9398.1	10464.6	11211.7
30°	9568.7	9544.3	9511.8	9341.3	8932.6	8621.3	8783.7	9270.9	9349.4	10397.0	11130.5
32.5°	10194.0	10269.7	10240.0	10039.7	9509.1	8984.0	8932.6	9265.5	9330.5	10345.5	11041.2
35°	10857.1	10892.3	11033.1	10930.2	10386.1	9571.4	9211.4	9349.4	9400.9	10348.2	10978.9
37.5°	11376.8	11471.6	11801.8	11891.1	11379.6	10348.2	9663.4	9587.6	9609.3	10480.9	11003.3
40°	12004.8	12167.2	12592.2	12957.6	12622.0	11357.9	10432.2	10028.8	10055.9	10800.3	11163.0
42.5°	12800.6	12914.3	13485.5	13980.8	13926.7	12692.4	11363.3	10751.6	10765.1	11436.4	11609.6
45°	13731.8	13894.2	14535.7	15280.1	15407.3	14202.8	12708.6	11845.1	11837.0	12424.4	12443.3
47.5°	14922.8	15023.0	15659.1	16471.1	16985.4	16100.3	14340.8	13415.1	13328.5	13864.4	13710.1
50°	16019.1	16176.1	16657.9	17545.7	18826.1	18322.6	16487.4	15450.6	15247.6	15748.4	15488.5
52.5°	16479.2	16644.4	17050.4	18152.1	20404.2	21197.3	19213.1	17878.7	17540.3	17924.7	17829.9
55°	15680.7	15894.6	16273.5	17613.4	21097.1	24513.1	22889.0	20685.7	20439.3	20274.2	20301.3
57.5°	13534.2	13737.2	14248.8	15726.7	20268.8	26919.5	28137.6	24293.9	23766.0	23005.4	23135.4
60°	10302.2	10429.5	10694.7	12332.4	17813.7	27544.8	34098.1	28854.9	28519.3	25725.8	25817.8
62.5°	7316.6	7460.0	7644.1	8461.6	13041.6	25782.6	38764.6	35224.1	34025.0	28543.6	28454.3
65°	5941.5	5844.1	6066.0	6447.7	7652.2	19981.9	39814.9	44064.6	42413.5	32254.7	31015.0
67.5°	4885.8	4783.0	5002.2	5681.7	5819.7	11598.8	36030.7	49803.1	49472.9	36290.6	33616.2
69°	4325.5	4271.4	4463.6	5237.7	5586.9	8236.9	31388.5	50601.7	50680.1	38669.9	34016.8
70°	3897.8	3919.5	4106.3	5013.1	5481.3	6791.5	26827.5	49500.0	50165.8	39858.2	33583.8
72.5°	2869.2	2915.3	3175.1	4152.3	5381.2	5762.9	15964.9	43236.3	44413.8	39928.6	30722.6
75°	2005.8	1984.1	2214.2	3126.4	5083.4	5711.4	9376.5	33437.6	34772.1	34512.2	25815.1
77.5°	1312.8	1348.0	1532.1	2208.8	4276.8	5668.1	6112.0	23722.7	24588.9	23081.2	15269.3
80°	925.7	923.0	1025.9	1507.7	3172.4	5446.2	5004.9	14952.6	14733.3	9070.6	4528.5
82.5°	530.5	568.4	687.5	1061.1	2122.2	4793.8	4604.3	7151.5	6528.9	2585.0	1529.4
85°	295.0	308.6	408.7	641.5	1239.7	3610.9	4019.7	3253.6	3069.6	1080.0	657.8
87.5°	94.7	102.9	170.5	324.8	563.0	1705.3	2276.5	1502.3	1385.9	389.8	265.3
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°	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5	11287.5
2.5°	11303.8	11336.2	11249.6	11165.7	11089.9	10984.4	10889.6	10811.1	10757.0	10748.9	10721.8
5°	11341.7	11344.4	11179.2	10957.3	10740.7	10502.5	10256.2	10080.3	9915.2	9823.1	9777.1
7.5°	11368.7	11344.4	11046.6	10686.6	10269.7	9836.7	9403.6	9057.1	8789.1	8683.5	8724.1
10°	11357.9	11282.1	10846.3	10269.7	9663.4	9016.5	8393.9	7906.7	7460.0	7230.0	7235.4
12.5°	11298.3	11173.8	10548.6	9801.5	8910.9	8044.7	7091.9	6434.2	5917.2	5611.3	5516.5
15°	11246.9	11030.4	10199.4	9165.4	8058.3	6821.2	5660.0	4847.9	4414.9	4173.9	4171.2
17.5°	11192.8	10892.3	9817.7	8491.4	7078.4	5486.8	4268.7	3648.8	3445.8	3470.2	3429.6
20°	11135.9	10729.9	9419.8	7741.6	5884.7	4092.7	3196.8	2945.0	3001.9	3112.9	3129.1
22.5°	11071.0	10556.7	8992.1	6916.0	4628.7	3080.4	2593.2	2555.3	2701.4	2874.7	2899.0
25°	10970.8	10340.1	8453.5	6052.5	3570.3	2482.2	2271.0	2298.1	2441.6	2587.7	2604.0
27.5°	10830.1	10072.1	7909.4	4975.2	2682.5	2130.3	2076.1	2111.3	2181.7	2271.0	2292.7
30°	10640.6	9769.0	7284.1	4044.0	2149.2	1954.3	1932.7	1951.6	1992.2	2030.1	2041.0
32.5°	10451.1	9476.6	6653.4	3096.6	1916.4	1837.9	1816.3	1816.3	1816.3	1821.7	1824.4
35°	10275.2	9200.5	5976.7	2411.8	1794.6	1745.9	1716.1	1683.7	1678.2	1659.3	1659.3
37.5°	10177.7	8948.8	5256.7	2019.3	1705.3	1670.1	1629.5	1575.4	1545.6	1548.3	1542.9
40°	10196.7	8783.7	4601.6	1797.3	1632.2	1594.3	1532.1	1469.8	1450.9	1450.9	1445.5
42.5°	10410.5	8729.6	3973.6	1680.9	1561.8	1518.5	1440.0	1383.2	1372.4	1369.7	1375.1
45°	10903.1	8862.2	3410.6	1605.2	1502.3	1437.3	1358.8	1307.4	1296.6	1296.6	1293.9
47.5°	11864.1	9292.6	3007.3	1556.4	1459.0	1375.1	1293.9	1242.4	1223.5	1218.1	1218.1
50°	13358.3	10226.4	2706.8	1513.1	1404.8	1318.2	1234.3	1174.8	1145.0	1142.3	1139.6
52.5°	15434.4	11682.7	2590.4	1480.6	1345.3	1258.7	1166.6	1109.8	1071.9	1063.8	1058.4
55°	17862.4	13715.6	2750.1	1456.3	1283.0	1191.0	1096.3	1036.7	1001.5	985.3	982.6
57.5°	20674.8	16157.1	3356.5	1423.8	1226.2	1117.9	1025.9	966.3	928.4	909.5	904.1
60°	23200.3	18666.4	4414.9	1404.8	1177.5	1039.4	944.7	890.6	855.4	836.4	833.7
62.5°	25974.8	21059.2	5678.9	1456.3	1155.8	963.6	868.9	820.2	790.4	771.4	771.4
65°	28938.8	23454.8	6515.4	1629.5	1188.3	904.1	787.7	747.1	720.0	706.5	703.8
67.5°	30936.5	24283.1	5367.7	1808.2	1269.5	839.1	709.2	676.7	660.5	646.9	646.9
69°	30719.9	23235.5	3960.1	1854.2	1293.9	806.6	665.9	641.5	619.9	614.5	609.0
70°	30035.1	22041.8	3318.6	1824.4	1274.9	776.9	638.8	609.0	590.1	584.7	582.0
72.5°	26751.7	19115.7	2471.3	1586.2	1085.4	674.0	565.7	538.7	522.4	514.3	514.3
75°	22225.9	15623.9	1930.0	1261.4	849.9	568.4	484.5	462.9	449.3	443.9	441.2
77.5°	12456.9	8724.1	1385.9	988.0	644.2	460.2	406.0	387.1	373.5	368.1	368.1
80°	3470.2	2493.0	814.8	652.3	438.5	349.2	322.1	308.6	289.6	276.1	284.2
82.5°	1307.4	1080.0	465.6	392.5	278.8	232.8	224.7	213.8	205.7	186.8	186.8
85°	636.1	525.1	297.8	208.4	154.3	121.8	116.4	111.0	105.6	92.0	94.7
87.5°	219.3	232.8	129.9	75.8	46.0	29.8	24.4	13.5	13.5	13.5	13.5
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)