

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: P456523

Luminaire Tested: **GALN-SA7D-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52742 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

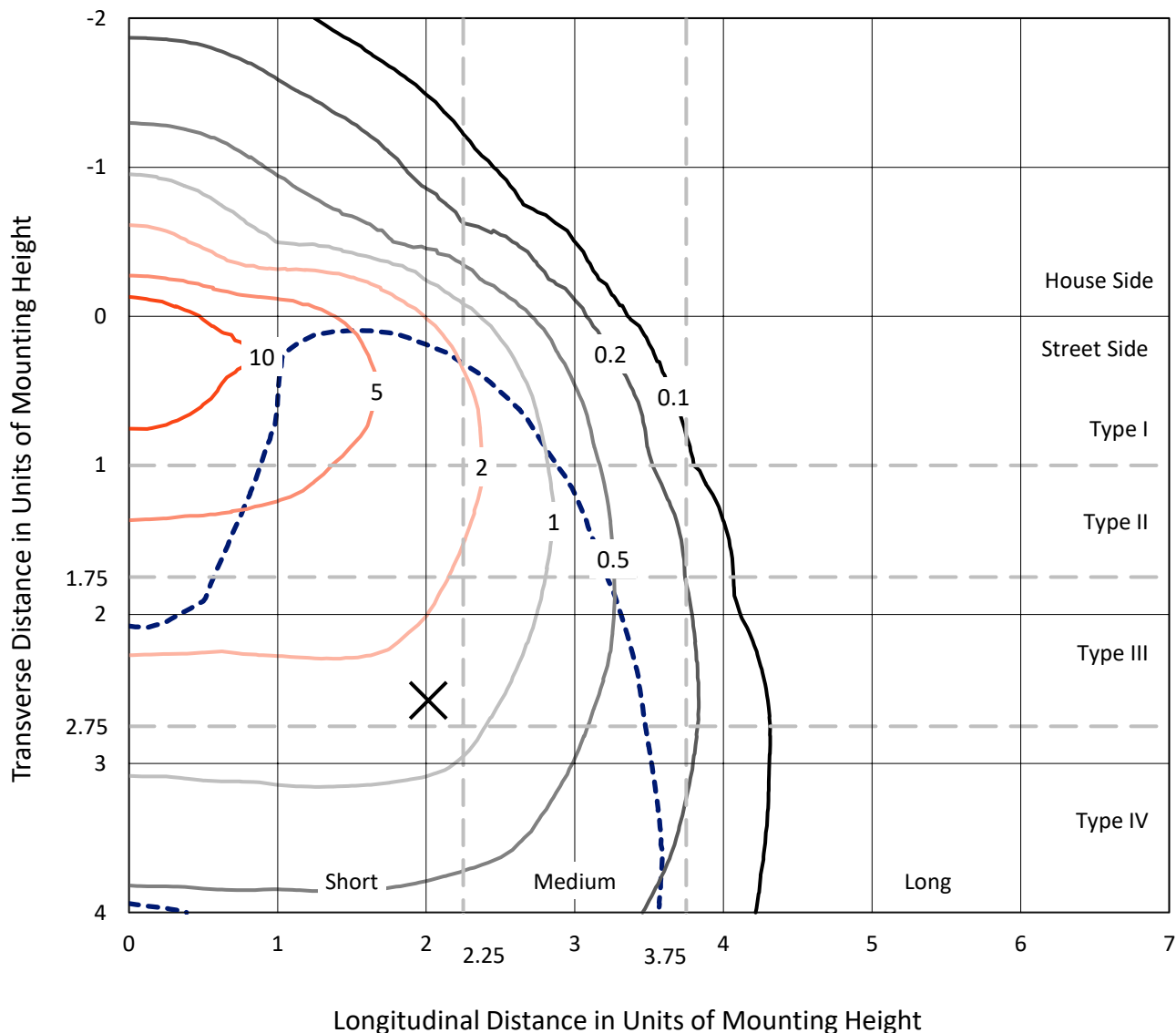
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

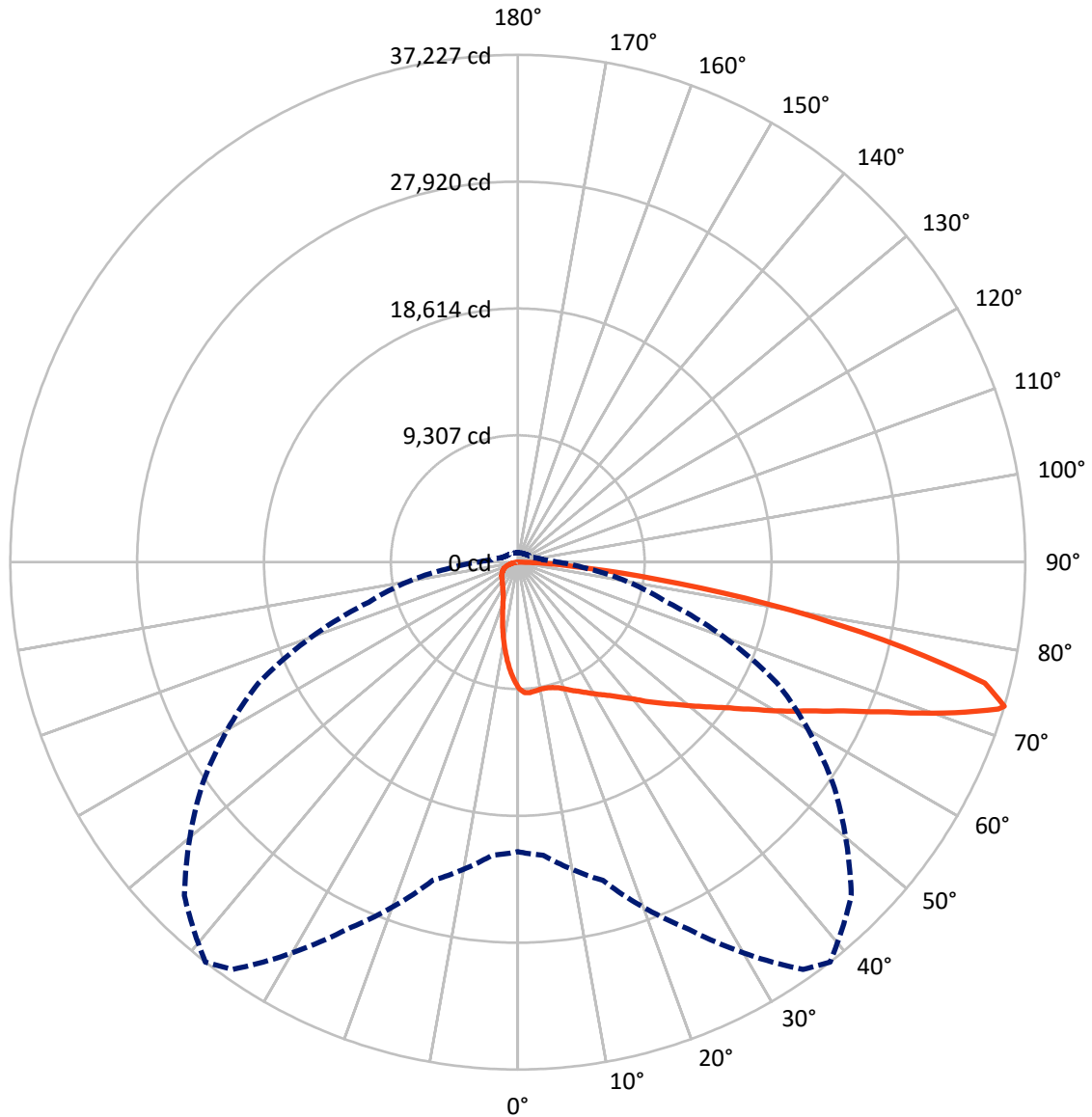
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7090.1	0.0	7090.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	45651.9	0.0	45651.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	52742.0	0.0	52742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.8	1.5
10°-20°	2074.1	3.9
20°-30°	3229.7	6.1
30°-40°	4737.2	9.0
40°-50°	7027.1	13.3
50°-60°	9956.1	18.9
60°-70°	12629.5	23.9
70°-80°	10513.1	19.9
80°-90°	1766.4	3.3
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°	52742.0	100.0
0°-180°	52742.0	100.0

Coefficient of Utilization



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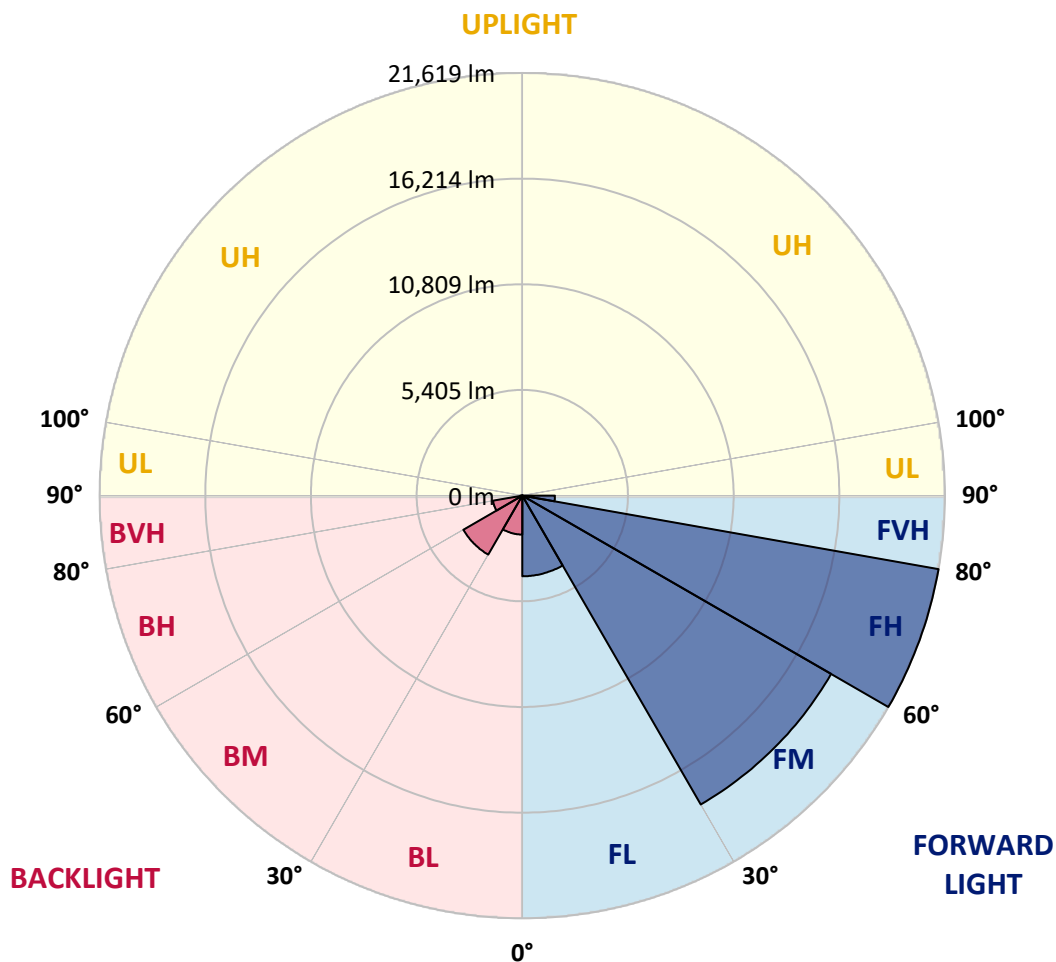
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4123.0	7.8			
FM	(30°-60°)	18239.6	34.6			
FH	(60°-80°)	21618.7	41.0			G5
FVH	(80°-90°)	1670.6	3.2			G5
BL	(0°-30°)	1989.5	3.8	B3/2500		
BM	(30°-60°)	3480.8	6.6	B3/5000		
BH	(60°-80°)	1523.9	2.9	B3/2500		G3/2500
BVH	(80°-90°)	95.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9
2.5°	9638.2	9685.8	9662.0	9629.2	9608.4	9587.5	9557.8	9471.4	9402.9	9328.4	9212.3
5°	9709.7	9739.4	9718.6	9676.9	9629.2	9608.4	9551.8	9438.6	9328.4	9203.3	9030.6
7.5°	9668.0	9679.9	9656.0	9605.4	9563.7	9525.0	9459.5	9334.4	9200.4	9048.5	8822.1
10°	9519.0	9563.7	9563.7	9522.0	9480.3	9459.5	9393.9	9274.8	9152.7	8979.9	8711.9
12.5°	9396.9	9444.6	9483.3	9471.4	9468.4	9468.4	9417.8	9328.4	9185.5	9021.6	8703.0
15°	9313.5	9370.1	9453.5	9501.2	9531.0	9539.9	9519.0	9441.6	9295.7	9105.0	8738.7
17.5°	9295.7	9364.2	9516.1	9620.3	9697.7	9694.8	9688.8	9581.6	9420.8	9224.2	8783.4
20°	9376.1	9465.4	9676.9	9840.7	9953.9	9933.0	9900.3	9760.3	9572.7	9352.2	8825.1
22.5°	9617.3	9709.7	9942.0	10120.7	10230.9	10230.9	10132.6	9947.9	9748.4	9501.2	8881.7
25°	9962.8	10064.1	10311.3	10493.0	10543.6	10504.9	10406.6	10183.2	9953.9	9715.6	9000.8
27.5°	10385.8	10507.9	10737.2	10889.1	10874.2	10844.4	10743.2	10457.2	10227.9	10010.5	9203.3
30°	10912.9	11002.3	11240.6	11276.3	11222.7	11216.7	11073.8	10787.8	10573.4	10406.6	9492.2
32.5°	11410.3	11490.8	11681.4	11696.3	11601.0	11612.9	11478.8	11216.7	11094.6	11035.1	9977.7
35°	11937.5	11979.2	12143.0	12125.2	12062.6	12053.7	12000.1	11749.9	11788.6	11895.8	10665.7
37.5°	12378.3	12461.7	12554.1	12568.9	12566.0	12595.8	12631.5	12512.4	12735.7	13072.3	11568.2
40°	12783.4	12854.9	12991.9	13039.5	13155.7	13215.3	13337.4	13340.4	13855.6	14409.6	12679.1
42.5°	13057.4	13179.5	13435.7	13522.0	13805.0	13983.7	14165.4	14359.0	15106.6	15818.4	13989.7
45°	13295.7	13456.5	13882.4	14150.5	14534.7	14752.1	15136.3	15541.4	16616.6	17548.9	15321.0
47.5°	13656.1	13799.0	14287.5	14761.1	15341.9	15592.0	16166.9	16771.5	18177.3	19198.9	16595.8
50°	14156.4	14242.8	14740.2	15511.6	16253.3	16574.9	17334.4	18207.1	19845.2	20828.1	17715.7
52.5°	14796.8	14832.5	15228.7	16256.2	17233.2	17632.3	18639.0	19657.6	21304.7	22242.9	18603.2
55°	15553.3	15493.8	15803.5	17045.5	18353.0	18874.3	19955.4	21126.0	22945.8	23386.6	19249.6
57.5°	16300.9	16208.6	16455.8	18004.6	19735.0	20363.5	21623.4	22639.0	24411.2	24455.8	19702.3
60°	17093.2	17024.7	17319.5	19130.4	21429.8	22174.4	23338.9	24208.6	25828.9	25200.4	19773.8
62.5°	17906.3	17796.1	18216.0	20396.2	23338.9	24015.0	25143.9	25876.5	27219.8	25477.4	19085.7
65°	18695.6	18644.9	19294.2	21900.3	25513.2	26281.6	27377.7	27875.1	28333.7	25060.5	17379.1
67.5°	19535.5	19636.7	20673.2	23907.8	28348.6	29313.6	30496.1	30028.5	28652.4	23085.8	14636.0
70°	20816.2	20881.7	22484.1	26537.8	32003.2	33167.7	33739.6	30793.9	27115.6	19335.9	11002.3
72.5°	21367.2	21656.1	24101.4	29298.8	36155.1	36866.9	34829.7	29087.3	22588.4	13134.8	5781.1
73°	21245.1	21590.6	24175.9	29718.7	36479.7	37227.3	34597.4	28208.6	20997.9	11312.1	4956.1
75°	19723.1	20149.0	23207.9	29367.3	35848.3	35401.5	30862.4	24041.8	14189.2	5143.7	2257.6
77.5°	15562.3	15684.4	18388.8	23714.2	28229.5	27401.5	23097.7	15026.1	5796.0	1912.1	1280.7
80°	7806.4	8256.2	10364.9	13584.6	18877.2	18606.2	14579.4	7106.5	2415.5	1122.9	848.9
82.5°	3755.8	4074.5	5048.4	6624.0	10430.4	10183.2	7219.7	3883.9	1533.9	655.3	500.4
85°	2418.5	2656.8	3213.7	3160.1	4288.9	4095.3	3243.5	2939.7	908.4	342.5	348.5
87.5°	1596.4	1748.3	2096.8	1676.9	1560.7	1411.8	1432.6	1656.0	178.7	131.1	47.7
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°	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9	9265.9
2.5°	9164.6	9125.9	8997.8	8872.7	8753.6	8640.4	8565.9	8467.7	8402.1	8420.0	8446.8
5°	8935.3	8848.9	8622.5	8402.1	8193.6	7946.4	7746.9	7586.0	7463.9	7419.3	7410.3
7.5°	8694.0	8548.1	8223.4	7845.2	7490.7	7184.0	6829.5	6653.8	6448.3	6376.8	6353.0
10°	8548.1	8351.5	7895.8	7368.6	6835.5	6326.2	5942.0	5629.2	5346.3	5292.7	5265.9
12.5°	8506.4	8247.3	7633.7	6954.6	6245.8	5620.3	5051.4	4640.4	4366.4	4303.8	4211.5
15°	8482.6	8160.9	7389.5	6537.6	5638.2	4875.7	4277.0	3797.5	3547.3	3380.5	3383.5
17.5°	8461.7	8062.6	7115.5	6081.9	5114.0	4235.3	3574.1	3142.2	2912.9	2823.5	2814.6
20°	8431.9	7946.4	6799.7	5602.4	4515.3	3651.5	3052.9	2731.2	2576.3	2501.9	2498.9
22.5°	8420.0	7833.3	6490.0	5114.0	3985.1	3201.8	2707.4	2481.0	2382.7	2332.1	2332.1
25°	8449.8	7752.8	6165.3	4649.3	3514.5	2817.6	2469.1	2314.2	2257.6	2230.8	2221.9
27.5°	8542.1	7717.1	5843.7	4184.7	3082.7	2555.5	2308.3	2201.1	2159.4	2138.5	2141.5
30°	8717.8	7714.1	5528.0	3726.0	2761.0	2355.9	2180.2	2105.7	2073.0	2061.1	2058.1
32.5°	9000.8	7779.6	5218.2	3347.7	2490.0	2189.1	2061.1	2007.5	1992.6	1983.6	1980.7
35°	9480.3	7964.3	4911.4	3002.3	2281.5	2040.2	1947.9	1921.1	1900.2	1909.2	1912.1
37.5°	10126.6	8283.0	4619.5	2731.2	2123.6	1930.0	1852.6	1828.8	1816.8	1825.8	1834.7
40°	10993.4	8741.7	4375.3	2513.8	2010.4	1837.7	1769.2	1748.3	1736.4	1751.3	1754.3
42.5°	11949.4	9271.8	4172.8	2344.0	1918.1	1760.2	1694.7	1670.9	1662.0	1670.9	1673.9
45°	12932.3	9888.4	4068.5	2221.9	1840.7	1703.7	1635.2	1608.3	1587.5	1581.5	1590.5
47.5°	13900.3	10424.5	4065.5	2147.4	1778.1	1653.0	1578.6	1548.8	1522.0	1507.1	1504.1
50°	14689.6	10850.4	4137.0	2114.7	1724.5	1596.4	1522.0	1492.2	1456.4	1426.7	1432.6
52.5°	15285.3	11127.4	4169.8	2099.8	1694.7	1536.9	1462.4	1435.6	1393.9	1355.2	1355.2
55°	15669.5	11192.9	4089.4	2084.9	1670.9	1474.3	1393.9	1370.1	1328.4	1289.7	1289.7
57.5°	15800.5	10990.4	3800.5	2049.2	1647.1	1420.7	1325.4	1304.5	1271.8	1233.1	1227.1
60°	15496.7	10305.3	3294.1	1941.9	1599.4	1364.1	1250.9	1242.0	1230.1	1197.3	1194.3
62.5°	14326.2	8851.9	2743.1	1801.9	1519.0	1304.5	1182.4	1197.3	1206.3	1188.4	1185.4
65°	12378.3	7186.9	2344.0	1608.3	1411.8	1221.2	1108.0	1146.7	1170.5	1170.5	1164.6
67.5°	10040.3	5519.0	1974.7	1441.6	1277.7	1108.0	1024.6	1054.4	1072.2	1066.3	1081.2
70°	7136.3	3737.9	1608.3	1250.9	1108.0	979.9	917.4	917.4	905.4	899.5	899.5
72.5°	3460.9	2135.5	1304.5	1045.4	944.2	836.9	786.3	765.5	741.6	738.6	723.8
73°	2892.0	1915.1	1245.0	1006.7	905.4	816.1	759.5	726.7	711.8	699.9	697.0
75°	1760.2	1453.5	1039.5	848.9	771.4	702.9	652.3	622.5	607.6	598.7	595.7
77.5°	1158.6	1084.1	807.2	649.3	589.7	548.0	527.2	497.4	488.5	476.5	476.5
80°	863.7	828.0	577.8	458.7	422.9	387.2	381.2	375.3	351.5	336.6	330.6
82.5°	557.0	589.7	393.2	306.8	268.1	238.3	241.3	250.2	226.4	205.5	199.6
85°	396.1	425.9	238.3	140.0	113.2	98.3	110.2	98.3	101.3	80.4	65.5
87.5°	65.5	113.2	41.7	17.9	8.9	6.0	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)