

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: P459307

Luminaire Tested: **GALN-SA7D-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459307
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-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 49131 lumens
Efficiency: N/A
Efficacy: 113.5 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

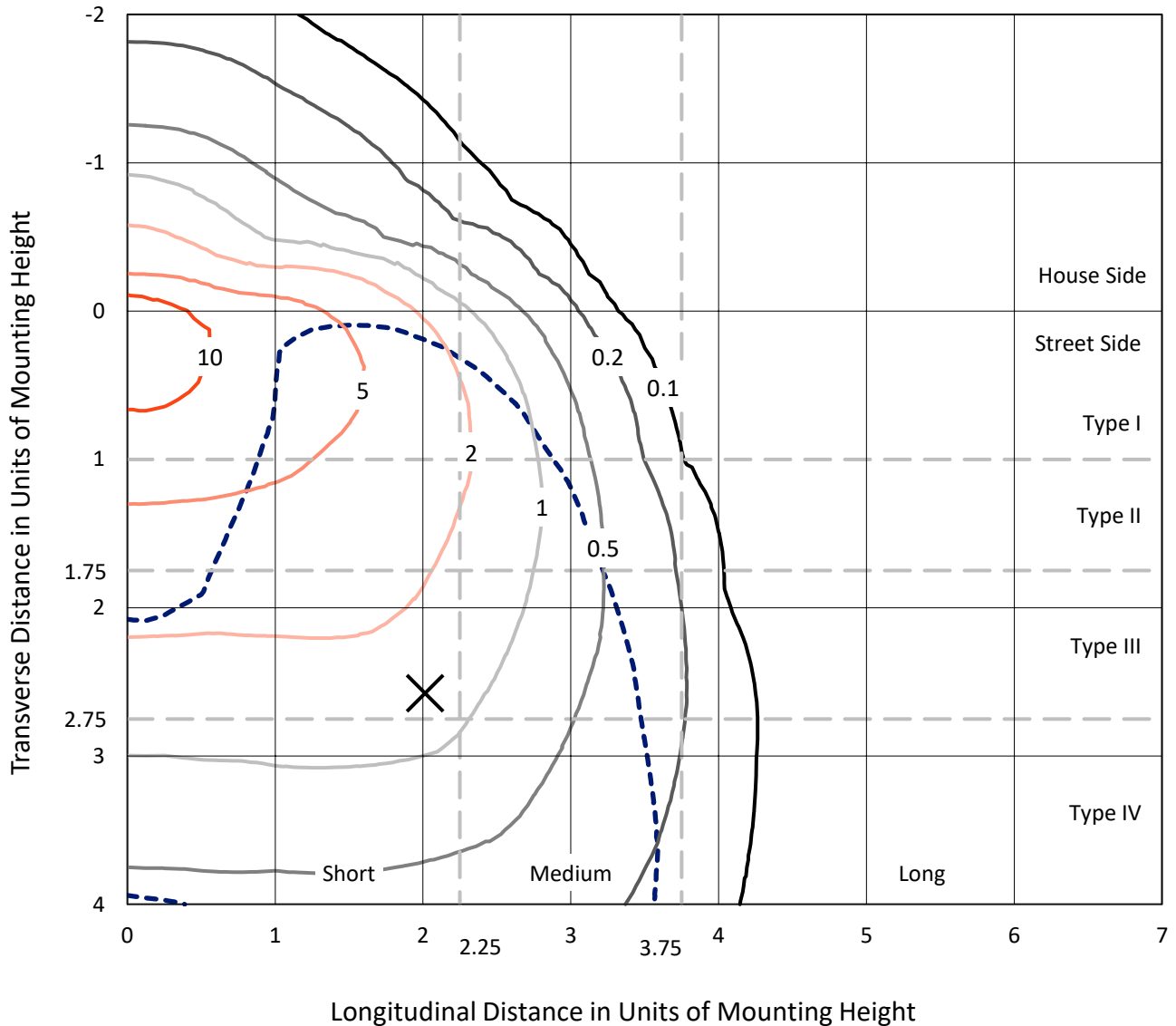
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

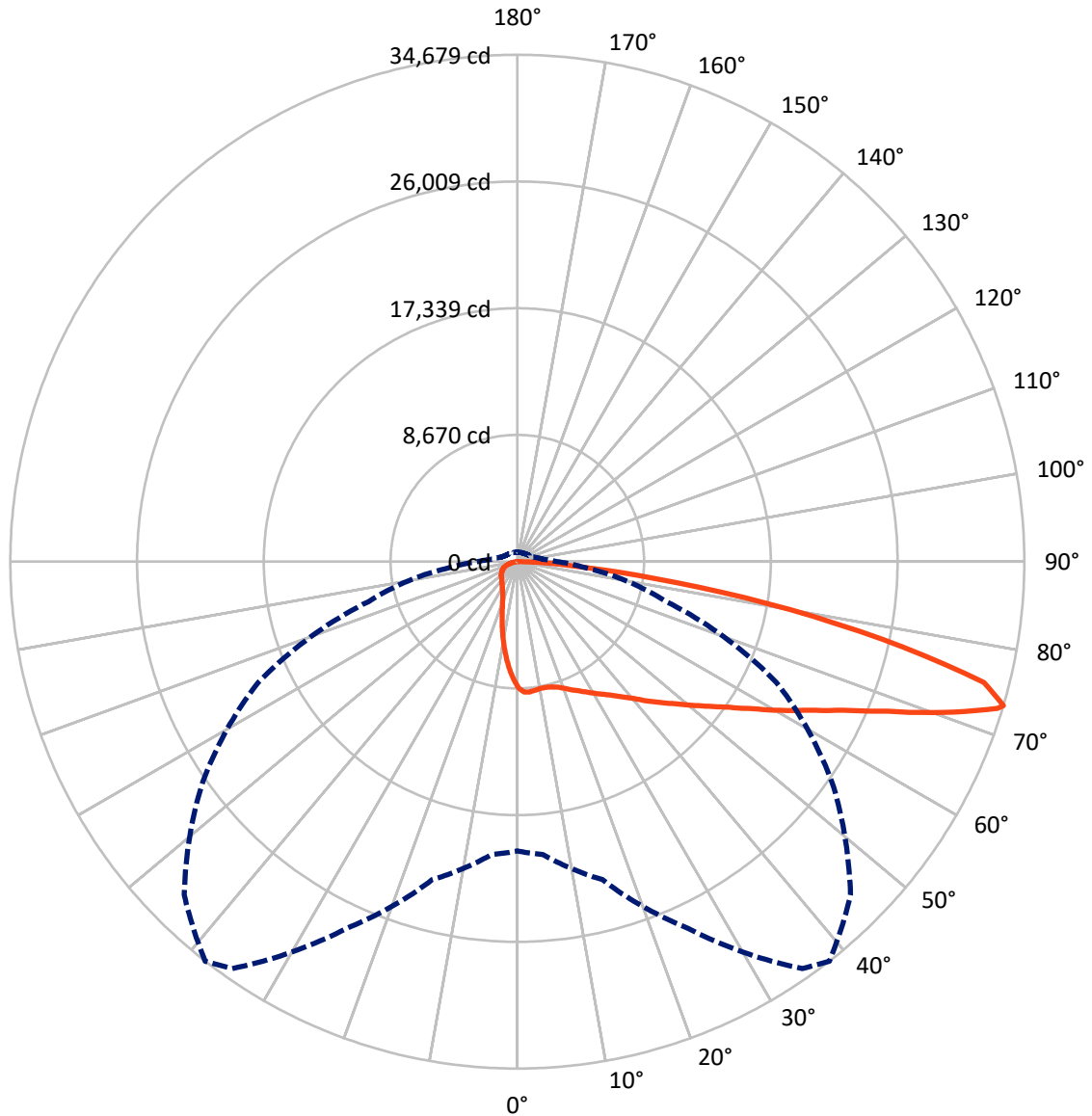
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	6604.7	0.0	6604.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	42526.3	0.0	42526.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	49131.0	0.0	49131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.4	1.5
10°-20°	1932.1	3.9
20°-30°	3008.6	6.1
30°-40°	4412.9	9.0
40°-50°	6546.0	13.3
50°-60°	9274.4	18.9
60°-70°	11764.9	23.9
70°-80°	9793.3	19.9
80°-90°	1645.4	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°	49131.0	100.0
0°-180°	49131.0	100.0

Coefficient of Utilization



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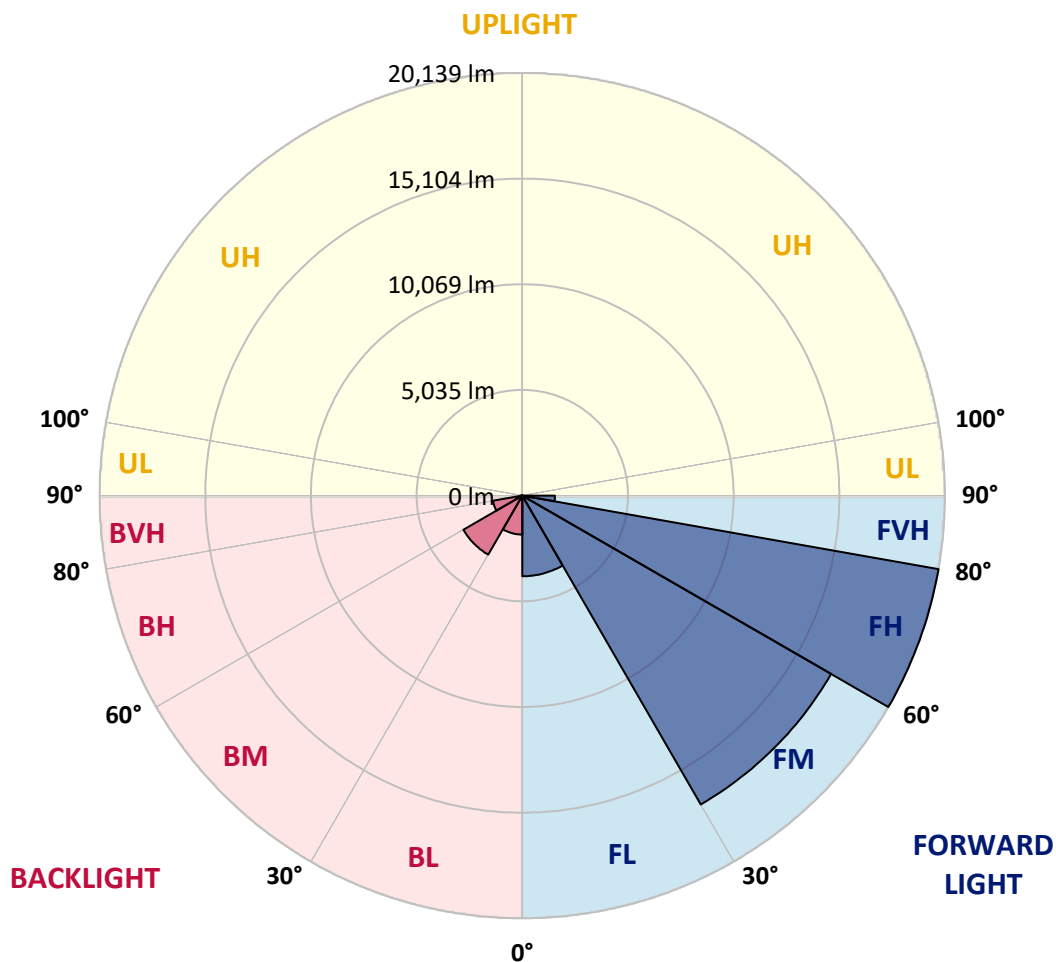
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3840.7	7.8			
FM	(30°-60°)	16990.8	34.6			
FH	(60°-80°)	20138.6	41.0			G5
FVH	(80°-90°)	1556.2	3.2			G5
BL	(0°-30°)	1853.3	3.8	B3/2500		
BM	(30°-60°)	3242.5	6.6	B3/5000		
BH	(60°-80°)	1419.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	89.2	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°	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5
2.5°	8978.3	9022.7	9000.5	8970.0	8950.6	8931.1	8903.4	8822.9	8759.1	8689.7	8581.5
5°	9044.9	9072.6	9053.2	9014.4	8970.0	8950.6	8897.8	8792.4	8689.7	8573.2	8412.3
7.5°	9006.0	9017.1	8994.9	8947.8	8908.9	8872.9	8811.8	8695.3	8570.4	8428.9	8218.1
10°	8867.3	8908.9	8908.9	8870.1	8831.2	8811.8	8750.8	8639.8	8526.1	8365.1	8115.4
12.5°	8753.6	8798.0	8834.0	8822.9	8820.2	8820.2	8773.0	8689.7	8556.6	8404.0	8107.1
15°	8675.9	8728.6	8806.3	8850.7	8878.4	8886.7	8867.3	8795.2	8659.2	8481.7	8140.4
17.5°	8659.2	8723.0	8864.5	8961.7	9033.8	9031.0	9025.5	8925.6	8775.8	8592.6	8182.0
20°	8734.1	8817.4	9014.4	9167.0	9272.4	9253.0	9222.5	9092.1	8917.3	8711.9	8220.9
22.5°	8958.9	9044.9	9261.3	9427.8	9530.4	9530.4	9438.9	9266.8	9081.0	8850.7	8273.6
25°	9280.7	9375.1	9605.3	9774.6	9821.7	9785.7	9694.1	9486.0	9272.4	9050.4	8384.6
27.5°	9674.7	9788.5	10002.1	10143.6	10129.7	10102.0	10007.6	9741.3	9527.6	9325.1	8573.2
30°	10165.8	10249.0	10471.0	10504.3	10454.3	10448.8	10315.6	10049.3	9849.5	9694.1	8842.3
32.5°	10629.1	10704.0	10881.6	10895.5	10806.7	10817.8	10692.9	10448.8	10335.0	10279.5	9294.6
35°	11120.2	11159.1	11311.7	11295.0	11236.7	11228.4	11178.5	10945.4	10981.5	11081.4	9935.5
37.5°	11530.8	11608.5	11694.5	11708.4	11705.6	11733.4	11766.7	11655.7	11863.8	12177.3	10776.2
40°	11908.2	11974.8	12102.4	12146.8	12255.0	12310.5	12424.2	12427.0	12907.0	13423.1	11811.1
42.5°	12163.4	12277.2	12515.8	12596.3	12859.8	13026.3	13195.5	13375.9	14072.3	14735.4	13031.8
45°	12385.4	12535.2	12932.0	13181.7	13539.6	13742.1	14100.0	14477.4	15479.0	16347.4	14272.1
47.5°	12721.1	12854.3	13309.3	13750.4	14291.5	14524.5	15060.0	15623.2	16932.8	17884.5	15459.5
50°	13187.2	13267.7	13731.0	14449.6	15140.5	15440.1	16147.6	16960.5	18486.5	19402.1	16502.8
52.5°	13783.7	13817.0	14186.0	15143.2	16053.3	16425.1	17362.9	18311.7	19846.0	20720.0	17329.6
55°	14488.5	14433.0	14721.5	15878.5	17096.5	17582.0	18589.2	19679.6	21374.8	21785.4	17931.6
57.5°	15184.9	15098.9	15329.1	16771.9	18383.9	18969.3	20142.9	21089.0	22739.8	22781.5	18353.3
60°	15922.9	15859.1	16133.7	17820.6	19962.6	20656.2	21741.0	22551.2	24060.5	23475.1	18419.9
62.5°	16680.3	16577.7	16968.9	18999.8	21741.0	22370.8	23422.4	24104.9	25356.2	23733.1	17779.0
65°	17415.6	17368.4	17973.2	20400.9	23766.4	24482.2	25503.2	25966.6	26393.9	23344.7	16189.2
67.5°	18198.0	18292.3	19257.8	22270.9	26407.7	27306.7	28408.2	27972.6	26690.7	21505.2	13633.9
70°	19391.0	19452.1	20944.7	24720.8	29812.1	30896.9	31429.6	28685.6	25259.1	18012.1	10249.0
72.5°	19904.3	20173.4	22451.3	27292.8	33679.7	34342.8	32445.1	27095.8	21041.8	12235.6	5385.3
73°	19790.5	20112.4	22520.7	27684.0	33982.1	34678.5	32228.6	26277.3	19560.3	10537.6	4616.8
75°	18372.8	18769.5	21618.9	27356.6	33393.9	32977.8	28749.4	22395.8	13217.7	4791.6	2103.1
77.5°	14496.8	14610.5	17129.8	22090.6	26296.8	25525.4	21516.3	13997.4	5399.2	1781.2	1193.0
80°	7272.0	7690.9	9655.3	12654.5	17584.8	17332.3	13581.2	6620.0	2250.1	1046.0	790.7
82.5°	3498.7	3795.5	4702.8	6170.5	9716.3	9486.0	6725.4	3618.0	1428.9	610.4	466.1
85°	2252.9	2474.9	2993.7	2943.7	3995.3	3814.9	3021.4	2738.4	846.2	319.1	324.6
87.5°	1487.1	1628.6	1953.3	1562.0	1453.8	1315.1	1334.5	1542.6	166.5	122.1	44.4
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°	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5	8631.5
2.5°	8537.2	8501.1	8381.8	8265.2	8154.3	8048.8	7979.5	7887.9	7826.9	7843.5	7868.5
5°	8323.5	8243.1	8032.2	7826.9	7632.7	7402.4	7216.5	7066.7	6952.9	6911.3	6903.0
7.5°	8098.8	7962.8	7660.4	7308.0	6977.9	6692.1	6361.9	6198.2	6006.8	5940.2	5918.0
10°	7962.8	7779.7	7355.2	6864.1	6367.5	5893.0	5535.1	5243.8	4980.2	4930.3	4905.3
12.5°	7924.0	7682.6	7111.1	6478.5	5818.1	5235.5	4705.6	4322.7	4067.4	4009.2	3923.1
15°	7901.8	7602.1	6883.5	6090.0	5252.1	4541.9	3984.2	3537.5	3304.4	3149.1	3151.8
17.5°	7882.4	7510.6	6628.3	5665.5	4763.8	3945.3	3329.4	2927.1	2713.5	2630.2	2621.9
20°	7854.6	7402.4	6334.2	5218.8	4206.1	3401.5	2843.9	2544.2	2399.9	2330.6	2327.8
22.5°	7843.5	7296.9	6045.6	4763.8	3712.3	2982.6	2522.0	2311.2	2219.6	2172.4	2172.4
25°	7871.3	7222.0	5743.2	4331.0	3273.9	2624.7	2300.1	2155.8	2103.1	2078.1	2069.8
27.5°	7957.3	7188.7	5443.6	3898.2	2871.6	2380.5	2150.2	2050.4	2011.5	1992.1	1994.9
30°	8121.0	7186.0	5149.5	3470.9	2572.0	2194.6	2030.9	1961.6	1931.1	1920.0	1917.2
32.5°	8384.6	7247.0	4860.9	3118.5	2319.5	2039.3	1920.0	1870.0	1856.1	1847.8	1845.0
35°	8831.2	7419.0	4575.2	2796.7	2125.3	1900.5	1814.5	1789.6	1770.1	1778.5	1781.2
37.5°	9433.3	7715.9	4303.3	2544.2	1978.2	1797.9	1725.7	1703.5	1692.4	1700.8	1709.1
40°	10240.7	8143.2	4075.7	2341.7	1872.8	1711.9	1648.1	1628.6	1617.5	1631.4	1634.2
42.5°	11131.3	8637.0	3887.1	2183.5	1786.8	1639.7	1578.7	1556.5	1548.2	1556.5	1559.3
45°	12046.9	9211.4	3790.0	2069.8	1714.6	1587.0	1523.2	1498.2	1478.8	1473.3	1481.6
47.5°	12948.6	9710.8	3787.2	2000.4	1656.4	1539.9	1470.5	1442.7	1417.8	1403.9	1401.1
50°	13683.9	10107.5	3853.8	1969.9	1606.4	1487.1	1417.8	1390.0	1356.7	1329.0	1334.5
52.5°	14238.8	10365.5	3884.3	1956.0	1578.7	1431.6	1362.3	1337.3	1298.5	1262.4	1262.4
55°	14596.7	10426.6	3809.4	1942.2	1556.5	1373.4	1298.5	1276.3	1237.4	1201.4	1201.4
57.5°	14718.7	10237.9	3540.3	1908.9	1534.3	1323.4	1234.7	1215.2	1184.7	1148.6	1143.1
60°	14435.7	9599.8	3068.6	1809.0	1489.9	1270.7	1165.3	1157.0	1145.9	1115.4	1112.6
62.5°	13345.4	8245.8	2555.3	1678.6	1415.0	1215.2	1101.5	1115.4	1123.7	1107.0	1104.3
65°	11530.8	6694.9	2183.5	1498.2	1315.1	1137.5	1032.1	1068.2	1090.4	1090.4	1084.8
67.5°	9352.9	5141.2	1839.5	1342.9	1190.3	1032.1	954.4	982.2	998.8	993.3	1007.1
70°	6647.7	3482.0	1498.2	1165.3	1032.1	912.8	854.5	854.5	843.4	837.9	837.9
72.5°	3224.0	1989.3	1215.2	973.9	879.5	779.6	732.5	713.0	690.9	688.1	674.2
73°	2694.0	1784.0	1159.7	937.8	843.4	760.2	707.5	677.0	663.1	652.0	649.2
75°	1639.7	1354.0	968.3	790.7	718.6	654.8	607.6	579.9	566.0	557.7	554.9
77.5°	1079.3	1009.9	751.9	604.8	549.4	510.5	491.1	463.3	455.0	443.9	443.9
80°	804.6	771.3	538.3	427.3	394.0	360.7	355.1	349.6	327.4	313.5	308.0
82.5°	518.8	549.4	366.2	285.8	249.7	222.0	224.7	233.1	210.9	191.4	185.9
85°	369.0	396.8	222.0	130.4	105.4	91.6	102.7	91.6	94.3	74.9	61.0
87.5°	61.0	105.4	38.8	16.6	8.3	5.5	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)