

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: P458970

Luminaire Tested: **GALN-SA4D-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28270 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

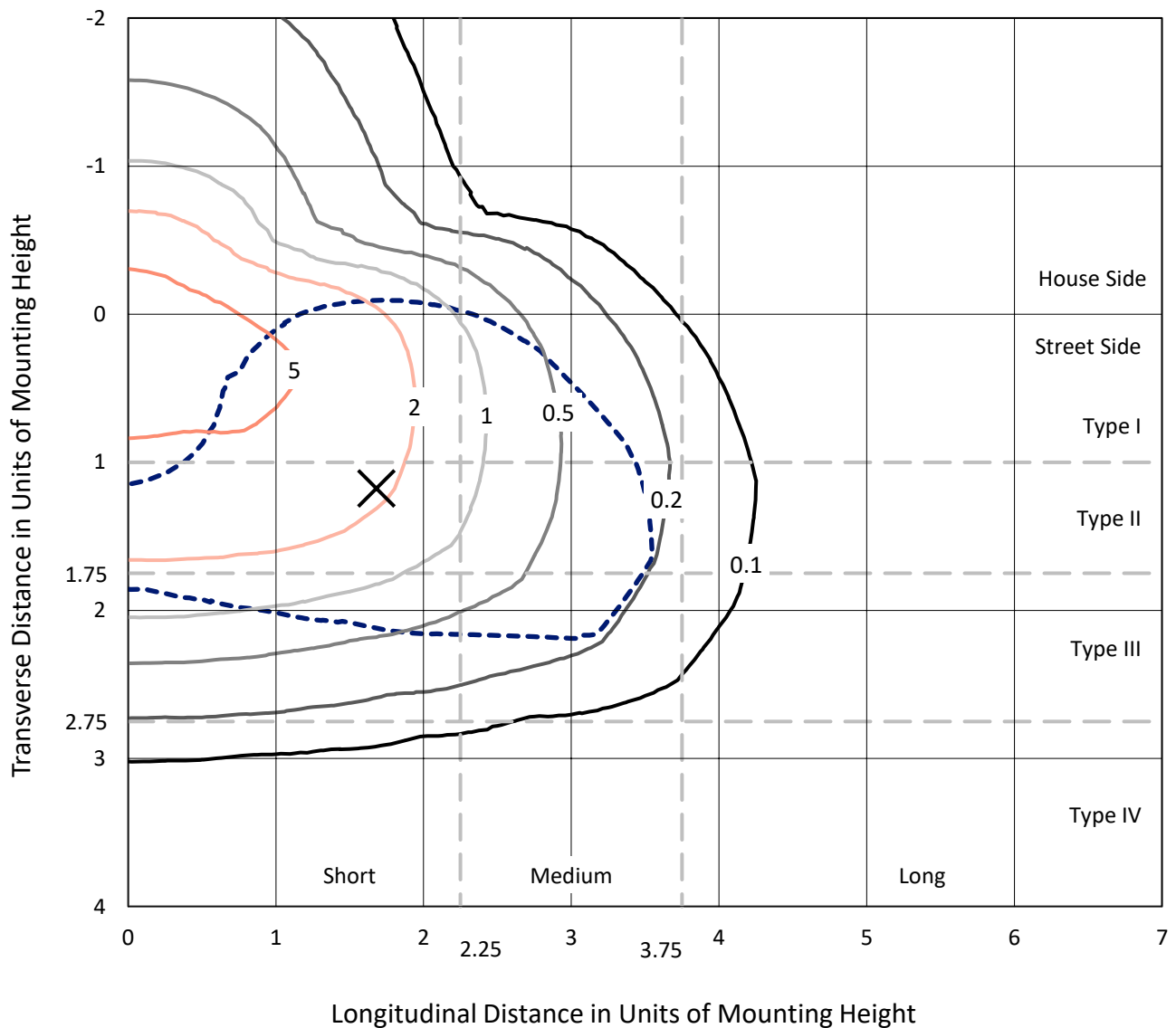
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

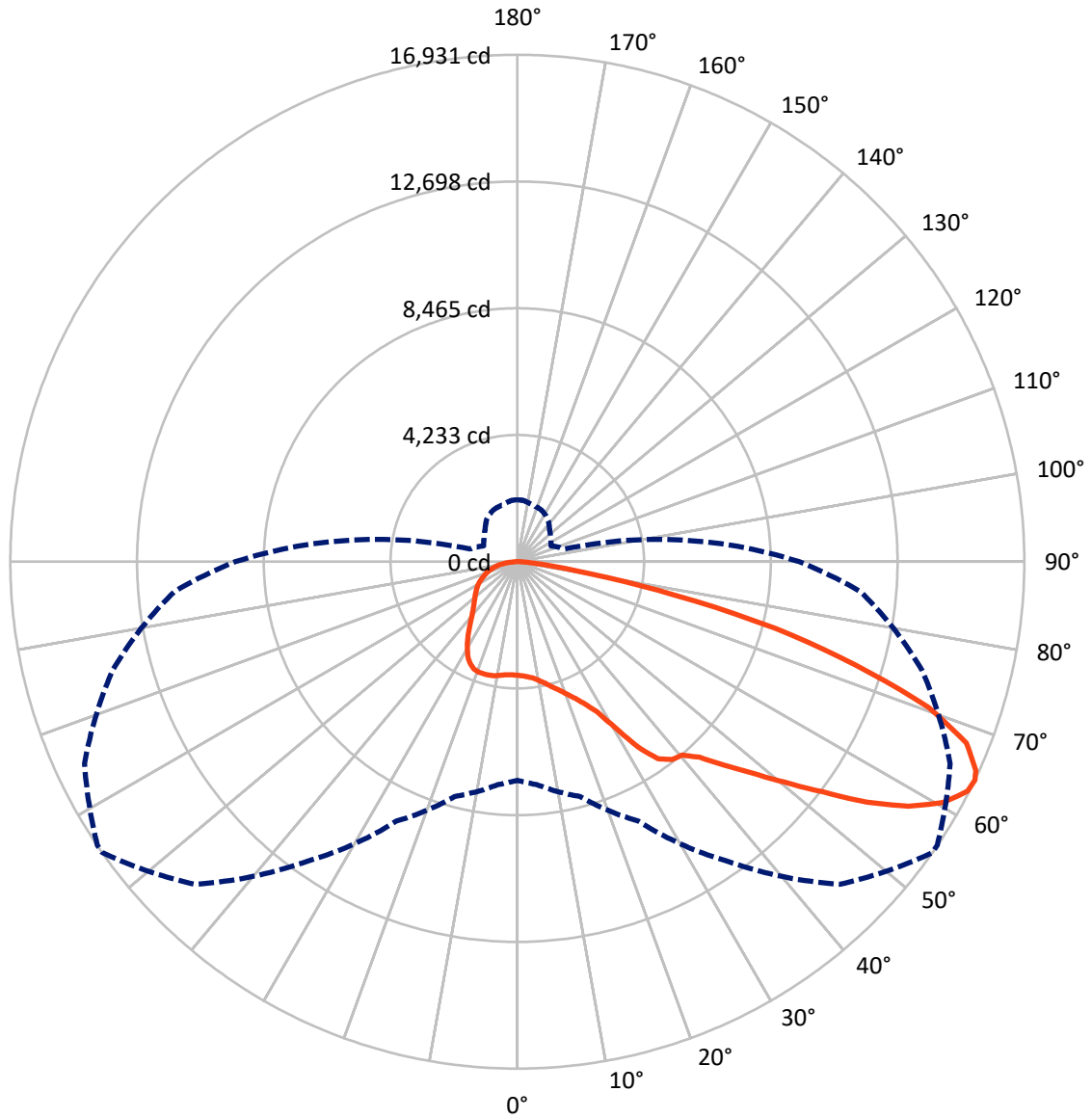
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6867.3	0.0	6867.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	21402.7	0.0	21402.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	28270.0	0.0	28270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	1.3
10°-20°	1164.2	4.1
20°-30°	2072.5	7.3
30°-40°	3188.8	11.3
40°-50°	4520.4	16.0
50°-60°	6543.2	23.1
60°-70°	6771.5	24.0
70°-80°	3171.1	11.2
80°-90°	469.4	1.7
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°	28270.0	100.0
0°-180°	28270.0	100.0

Coefficient of Utilization



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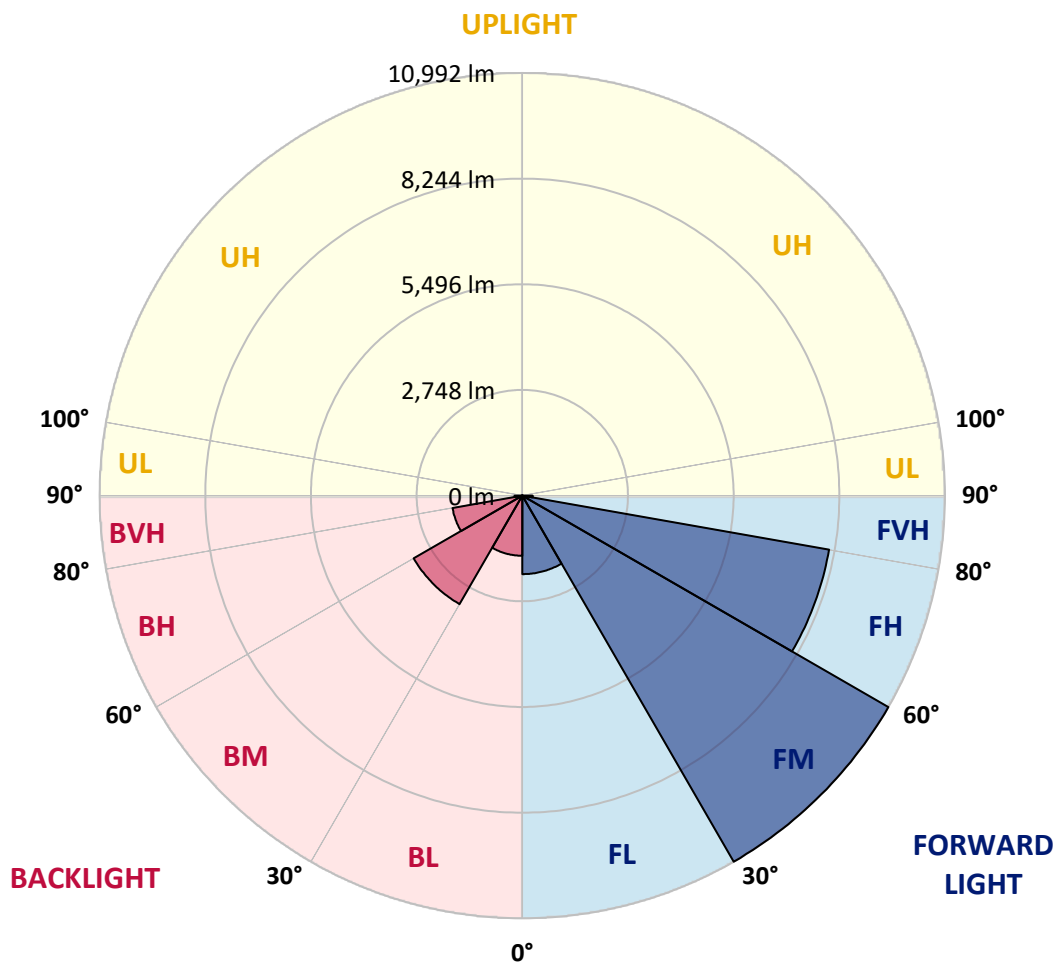
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2041.5	7.2			
FM	(30°-60°)	10992.2	38.9			
FH	(60°-80°)	8100.2	28.7			G4/12000
FVH	(80°-90°)	268.8	1.0			G3/500
BL	(0°-30°)	1564.1	5.5	B3/2500		
BM	(30°-60°)	3260.2	11.5	B3/5000		
BH	(60°-80°)	1842.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	200.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0
2.5°	3835.5	3834.0	3838.7	3834.0	3837.1	3826.1	3821.3	3824.5	3819.8	3811.9	3797.7
5°	3882.8	3881.2	3882.8	3876.5	3879.7	3873.3	3862.3	3865.5	3857.6	3840.3	3819.8
7.5°	3963.2	3956.9	3956.9	3955.3	3949.0	3939.5	3931.7	3928.5	3920.6	3898.6	3867.0
10°	4067.2	4067.2	4068.7	4056.1	4064.0	4046.7	4038.8	4037.2	4010.4	3982.1	3938.0
12.5°	4204.3	4212.1	4207.4	4201.1	4198.0	4191.7	4164.9	4171.2	4141.2	4092.4	4038.8
15°	4374.5	4387.1	4379.2	4376.0	4368.2	4344.5	4333.5	4328.8	4289.4	4218.5	4147.5
17.5°	4599.8	4584.0	4577.7	4569.9	4536.8	4519.4	4500.5	4497.4	4462.7	4379.2	4268.9
20°	4796.8	4818.8	4806.2	4798.3	4765.3	4732.2	4718.0	4713.3	4683.3	4591.9	4415.4
22.5°	5031.6	5036.3	5041.0	5022.1	5006.4	4981.1	4955.9	4948.1	4937.0	4842.5	4626.6
25°	5282.1	5301.0	5285.3	5266.4	5247.5	5245.9	5269.5	5266.4	5261.6	5170.2	4907.1
27.5°	5690.3	5707.6	5712.3	5691.8	5619.3	5625.7	5679.2	5696.6	5769.0	5617.8	5267.9
30°	5920.3	5937.7	5977.1	6054.3	6169.3	6270.2	6399.4	6438.8	6508.1	6222.9	5696.6
32.5°	6062.2	6068.5	6139.4	6282.8	6627.9	7004.5	7355.9	7370.1	7414.2	7013.9	6088.9
35°	6285.9	6290.6	6347.4	6505.0	6909.9	7537.1	8080.8	8098.1	8061.9	7259.8	6271.7
37.5°	6561.7	6574.3	6610.5	6741.3	7225.1	7983.1	8381.7	8369.1	8047.7	7455.2	6594.8
40°	6963.5	6963.5	6921.0	7097.5	7557.6	8238.3	8487.3	8465.3	8380.2	8020.9	7086.4
42.5°	7318.1	7311.8	7412.6	7532.4	7973.6	8632.3	8930.1	8966.4	9106.6	8731.6	7645.8
45°	7779.8	7808.2	7864.9	8082.3	8681.2	9305.2	9689.7	9724.3	9922.9	9568.3	8299.8
47.5°	8246.2	8255.7	8433.7	8723.7	9557.3	10217.6	10532.7	10589.5	10770.7	10546.9	9004.2
50°	8577.1	8667.0	8952.2	9409.2	10460.2	11330.1	11575.9	11643.7	11963.6	11612.2	9825.2
52.5°	8927.0	9015.2	9363.5	10060.0	11497.1	12467.8	12770.4	12816.1	13148.6	12690.0	10665.1
55°	9226.4	9308.3	9703.9	10636.7	12322.9	13629.2	14177.6	14124.0	14283.2	13520.5	11312.8
57.5°	9275.2	9341.4	9839.4	11005.5	12943.7	14625.1	15411.4	15443.0	15258.6	14141.3	11847.0
60°	8897.0	9032.6	9604.6	10966.1	13222.6	15318.5	16331.7	16353.8	15830.6	14459.7	12059.7
62.5°	8227.3	8213.1	8904.9	10332.6	12831.8	15476.1	16873.8	16850.2	16054.4	14306.8	11853.3
64°	7302.3	7472.5	8118.6	9554.2	12201.5	15233.4	16930.5	16917.9	15947.2	13988.5	11501.9
65°	6738.2	6728.7	7366.9	8917.5	11574.3	14867.8	16829.7	16812.3	15723.5	13703.3	11229.2
67.5°	4864.5	4886.6	5516.9	6881.6	9409.2	13438.5	16172.6	16108.0	14841.0	12757.8	10192.4
70°	2946.8	2959.4	3454.2	4565.1	6753.9	10863.7	14577.8	14581.0	13490.5	11345.9	8674.8
72.5°	1552.2	1585.3	1783.8	2592.2	4101.8	7622.2	11826.5	12107.0	11582.2	9683.4	6853.2
75°	863.5	868.3	1008.5	1278.0	2092.7	4265.7	8889.2	8969.5	9169.7	7794.0	5067.8
77.5°	658.7	668.1	712.3	825.7	1139.3	1977.6	5379.8	5783.2	6462.4	5494.9	2891.6
80°	534.2	543.7	581.5	649.2	758.0	937.6	2499.2	2716.7	3458.9	2439.4	1128.3
82.5°	416.0	409.7	458.6	502.7	551.5	554.7	1025.9	1134.6	1408.8	1049.5	488.5
85°	308.9	308.9	348.3	338.8	356.1	324.6	452.3	499.5	564.1	446.0	226.9
87.5°	122.9	135.5	228.5	204.9	159.2	127.6	167.0	176.5	195.4	174.9	94.5
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°	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0
2.5°	3799.3	3804.0	3793.0	3785.1	3782.0	3777.2	3772.5	3774.1	3780.4	3786.7	3785.1
5°	3818.2	3819.8	3800.9	3791.4	3785.1	3778.8	3778.8	3783.5	3796.1	3805.6	3805.6
7.5°	3865.5	3865.5	3838.7	3821.3	3811.9	3800.9	3797.7	3799.3	3808.7	3821.3	3822.9
10°	3939.5	3933.2	3898.6	3871.8	3854.4	3827.6	3804.0	3791.4	3796.1	3804.0	3804.0
12.5°	4029.4	4012.0	3967.9	3931.7	3889.1	3838.7	3789.8	3764.6	3763.0	3770.9	3767.8
15°	4125.5	4106.6	4045.1	3978.9	3904.9	3830.8	3772.5	3736.3	3707.9	3700.0	3717.3
17.5°	4237.4	4198.0	4112.9	4021.5	3911.2	3815.0	3723.6	3649.6	3599.2	3585.0	3589.7
20°	4372.9	4320.9	4205.8	4062.4	3906.4	3758.3	3616.5	3517.2	3435.3	3410.1	3413.2
22.5°	4560.4	4470.6	4302.0	4082.9	3867.0	3651.2	3454.2	3325.0	3225.7	3186.3	3209.9
25°	4773.1	4675.4	4393.4	4078.2	3764.6	3479.4	3261.9	3093.3	3003.5	2945.2	2957.8
27.5°	5066.2	4892.9	4491.1	4035.7	3618.1	3269.8	3017.7	2858.5	2776.6	2746.6	2760.8
30°	5441.3	5175.0	4596.6	3920.6	3386.4	3005.1	2771.9	2667.9	2619.0	2581.2	2593.8
32.5°	5712.3	5373.5	4620.3	3726.8	3135.9	2764.0	2604.8	2527.6	2474.0	2437.8	2445.7
35°	5906.1	5542.1	4609.3	3488.8	2874.3	2565.4	2472.4	2409.4	2322.7	2244.0	2229.8
37.5°	6166.2	5753.3	4528.9	3228.8	2615.8	2431.5	2365.3	2248.7	2124.2	2018.6	2013.9
40°	6564.8	6000.7	4357.1	2923.1	2395.2	2332.2	2251.8	2100.6	1966.6	1881.5	1875.2
42.5°	6976.1	6229.2	4123.9	2601.7	2214.0	2228.2	2130.5	1980.8	1898.9	1843.7	1837.4
45°	7478.8	6476.6	3871.8	2322.7	2080.1	2130.5	2024.9	1938.2	1889.4	1853.2	1843.7
47.5°	8022.5	6730.3	3588.1	2072.2	1966.6	2040.7	1980.8	1941.4	1914.6	1889.4	1878.4
50°	8608.7	7013.9	3321.8	1870.5	1864.2	1947.7	1976.1	1961.9	1946.1	1938.2	1928.8
52.5°	9251.6	7303.9	3098.0	1728.7	1774.4	1881.5	1977.6	1988.7	1988.7	1983.9	1977.6
55°	9686.5	7505.6	2871.1	1613.6	1683.0	1827.9	1974.5	2017.0	2032.8	2026.5	2020.2
57.5°	10008.0	7615.9	2585.9	1514.4	1605.8	1775.9	1957.2	2020.2	2035.9	2043.8	2040.7
60°	10074.2	7513.5	2212.4	1410.4	1522.2	1700.3	1894.1	1972.9	1993.4	2042.3	2047.0
62.5°	9776.3	7198.3	1840.5	1307.9	1419.8	1585.3	1809.0	1919.3	1960.3	2035.9	2043.8
64°	9410.8	6845.3	1634.1	1243.3	1353.6	1520.7	1766.5	1905.2	1958.7	2059.6	2065.9
65°	9142.9	6588.5	1504.9	1202.3	1311.1	1478.1	1742.8	1909.9	1972.9	2095.8	2105.3
67.5°	8156.4	5704.4	1244.9	1106.2	1210.2	1405.6	1747.6	1949.3	1969.8	2110.0	2108.4
70°	6749.2	4541.5	1043.2	1018.0	1112.5	1347.3	1728.7	1886.2	1887.8	1980.8	1958.7
72.5°	5053.6	3356.5	904.5	926.6	1003.8	1208.6	1632.5	1801.2	1774.4	1787.0	1764.9
75°	3471.5	2220.3	778.5	828.9	890.3	1068.4	1497.0	1635.7	1593.1	1577.4	1561.6
77.5°	1853.2	1227.6	647.7	732.8	773.7	923.4	1306.3	1440.3	1396.2	1334.7	1314.2
80°	750.1	578.3	521.6	606.7	630.3	743.8	1087.3	1170.8	1137.7	1030.6	995.9
82.5°	376.6	346.7	409.7	477.5	479.0	531.0	808.4	887.2	813.1	682.3	652.4
85°	197.0	203.3	282.1	335.6	296.3	286.8	485.4	537.4	493.2	428.6	386.1
87.5°	70.9	81.9	148.1	146.6	104.0	55.2	107.2	52.0	28.4	17.3	22.1
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)