

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: P459231

Luminaire Tested: **GALN-SA7A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459231
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-SA7A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29425 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

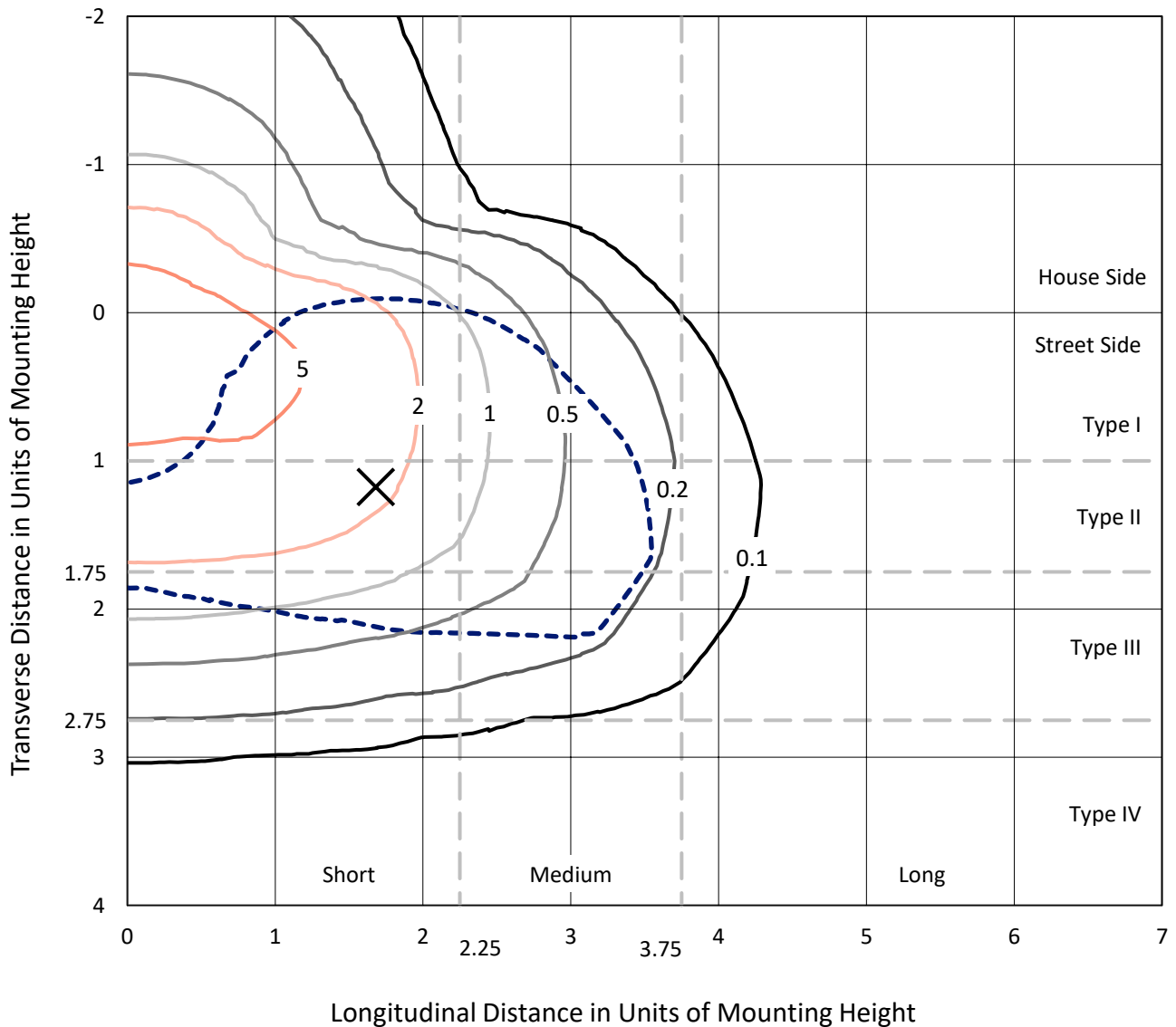
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

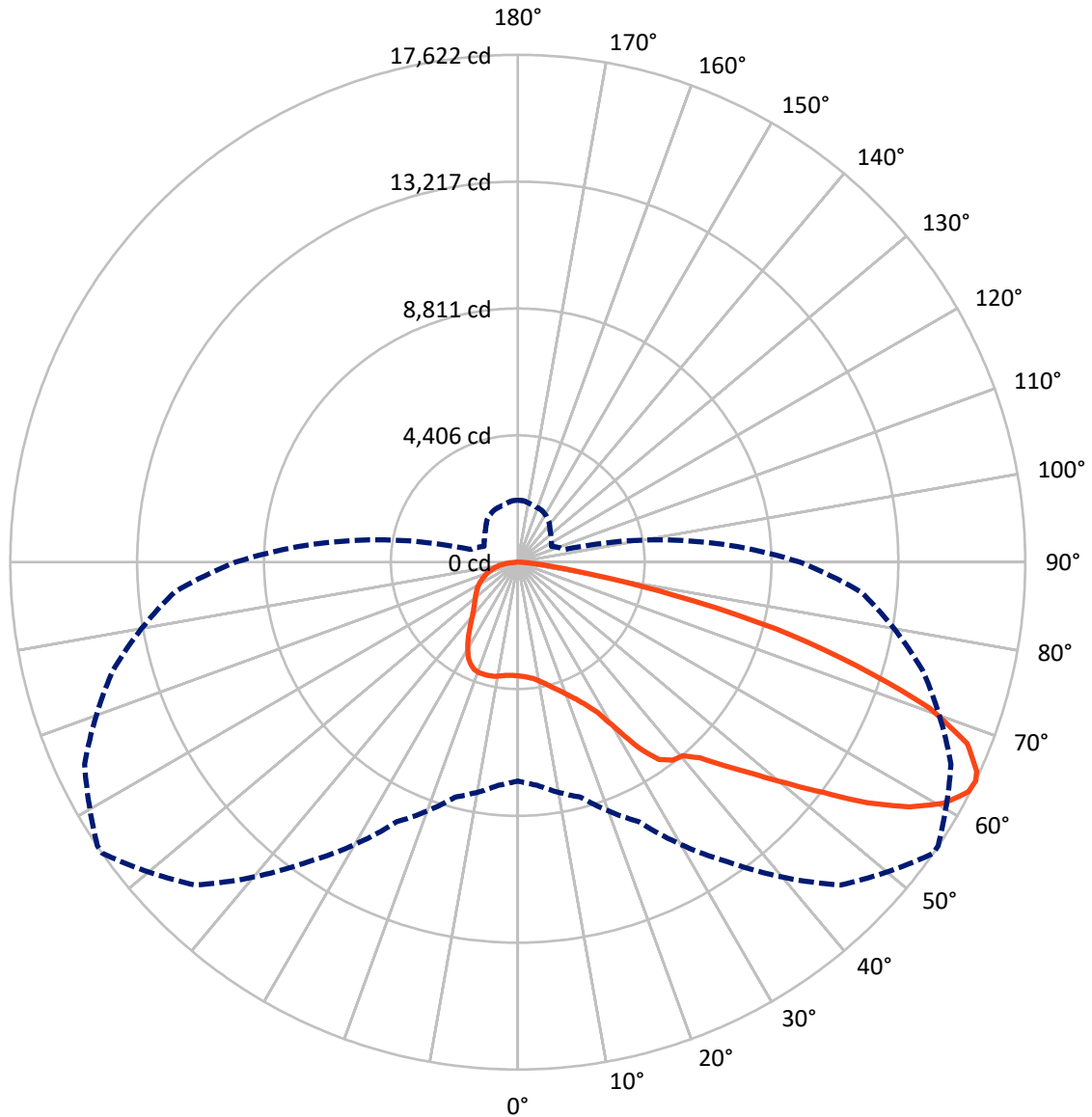
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	7147.9	0.0	7147.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	22277.1	0.0	22277.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	29425.0	0.0	29425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	1.3
10°-20°	1211.7	4.1
20°-30°	2157.2	7.3
30°-40°	3319.1	11.3
40°-50°	4705.1	16.0
50°-60°	6810.5	23.1
60°-70°	7048.1	24.0
70°-80°	3300.6	11.2
80°-90°	488.6	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°	29425.0	100.0
0°-180°	29425.0	100.0

Coefficient of Utilization



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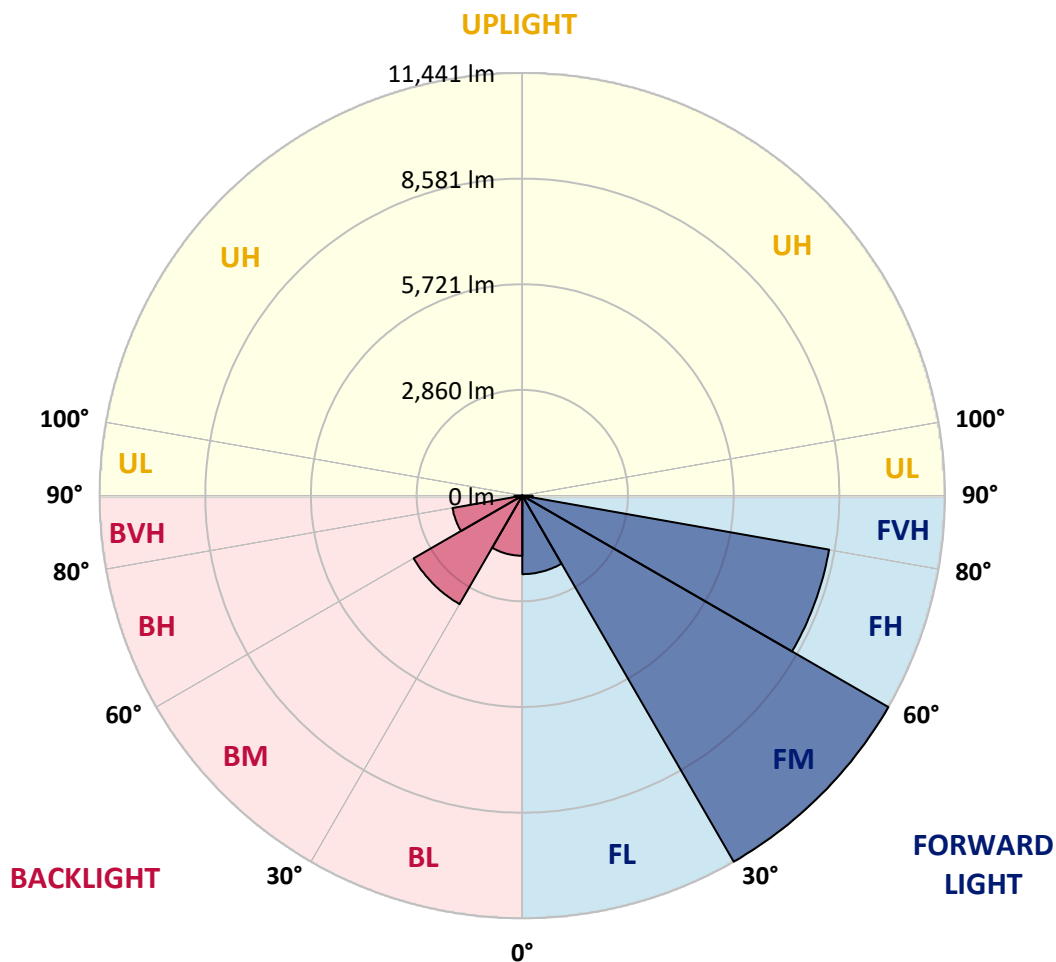
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2125.0	7.2			
FM	(30°-60°)	11441.2	38.9			
FH	(60°-80°)	8431.1	28.7			G4/12000
FVH	(80°-90°)	279.8	1.0			G3/500
BL	(0°-30°)	1628.0	5.5	B3/2500		
BM	(30°-60°)	3393.4	11.5	B3/5000		
BH	(60°-80°)	1917.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	208.8	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°	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9
2.5°	3992.2	3990.6	3995.5	3990.6	3993.9	3982.4	3977.5	3980.8	3975.8	3967.6	3952.9
5°	4041.4	4039.8	4041.4	4034.9	4038.2	4031.6	4020.1	4023.4	4015.2	3997.2	3975.8
7.5°	4125.1	4118.5	4118.5	4116.9	4110.3	4100.5	4092.3	4089.0	4080.8	4057.8	4025.0
10°	4233.3	4233.3	4235.0	4221.9	4230.1	4212.0	4203.8	4202.2	4174.3	4144.8	4098.8
12.5°	4376.0	4384.2	4379.3	4372.8	4369.5	4362.9	4335.0	4341.6	4310.4	4259.6	4203.8
15°	4553.2	4566.3	4558.1	4554.8	4546.6	4522.0	4510.5	4505.6	4464.6	4390.8	4317.0
17.5°	4787.7	4771.3	4764.8	4756.6	4722.1	4704.1	4684.4	4681.1	4645.0	4558.1	4443.3
20°	4992.8	5015.7	5002.6	4994.4	4959.9	4925.5	4910.7	4905.8	4874.7	4779.5	4595.8
22.5°	5237.1	5242.1	5247.0	5227.3	5210.9	5184.7	5158.4	5150.2	5138.7	5040.3	4815.6
25°	5497.9	5517.6	5501.2	5481.5	5461.8	5460.2	5484.8	5481.5	5476.6	5381.5	5107.6
27.5°	5922.7	5940.8	5945.7	5924.4	5848.9	5855.5	5911.3	5929.3	6004.8	5847.3	5483.2
30°	6162.2	6180.3	6221.3	6301.6	6421.4	6526.3	6660.8	6701.8	6774.0	6477.1	5929.3
32.5°	6309.8	6316.4	6390.2	6539.5	6898.7	7290.7	7656.4	7671.2	7717.1	7300.5	6337.7
35°	6542.7	6547.7	6606.7	6770.7	7192.3	7845.0	8410.9	8429.0	8391.2	7556.4	6528.0
37.5°	6829.8	6842.9	6880.6	7016.7	7520.3	8309.2	8724.2	8711.1	8376.5	7759.8	6864.2
40°	7248.0	7248.0	7203.7	7387.4	7866.4	8574.9	8834.1	8811.1	8722.6	8348.6	7376.0
42.5°	7617.1	7610.5	7715.5	7840.1	8299.4	8985.0	9295.0	9332.7	9478.7	9088.3	7958.2
45°	8097.6	8127.2	8186.2	8412.6	9035.8	9685.3	10085.6	10121.6	10328.3	9959.3	8638.9
47.5°	8583.1	8593.0	8778.3	9080.1	9947.8	10635.0	10963.1	11022.1	11210.7	10977.8	9372.1
50°	8927.6	9021.1	9317.9	9793.6	10887.6	11793.0	12048.9	12119.4	12452.4	12086.6	10226.6
52.5°	9291.7	9383.5	9746.0	10471.0	11966.9	12977.2	13292.1	13339.7	13685.8	13208.5	11100.8
55°	9603.3	9688.6	10100.3	11071.3	12826.3	14186.0	14756.8	14701.1	14866.7	14072.9	11775.0
57.5°	9654.2	9723.1	10241.4	11455.1	13472.6	15222.6	16041.1	16073.9	15882.0	14719.1	12331.0
60°	9260.5	9401.6	9997.0	11414.1	13762.9	15944.3	16999.0	17021.9	16477.4	15050.4	12552.4
62.5°	8563.5	8548.7	9268.7	10754.8	13356.1	16108.3	17563.2	17538.6	16710.3	14891.3	12337.5
64°	7600.7	7777.8	8450.3	9944.5	12700.0	15855.8	17622.2	17609.1	16598.8	14560.0	11971.8
65°	7013.5	7003.6	7667.9	9281.9	12047.2	15475.2	17517.3	17499.2	16365.9	14263.1	11688.0
67.5°	5063.3	5086.2	5742.3	7162.7	9793.6	13987.6	16833.3	16766.1	15447.3	13279.0	10608.8
70°	3067.2	3080.3	3595.3	4751.6	7029.9	11307.5	15173.4	15176.7	14041.7	11809.4	9029.3
72.5°	1615.6	1650.0	1856.7	2698.1	4269.4	7933.6	12309.7	12601.6	12055.4	10079.0	7133.2
75°	898.8	903.7	1049.7	1330.2	2178.2	4440.0	9252.3	9336.0	9544.3	8112.4	5274.9
77.5°	685.6	695.4	741.4	859.5	1185.9	2058.4	5599.6	6019.5	6726.4	5719.4	3009.8
80°	556.0	565.9	605.2	675.8	788.9	975.9	2601.3	2827.7	3600.2	2539.0	1174.4
82.5°	433.0	426.5	477.3	523.2	574.1	577.3	1067.8	1180.9	1466.3	1092.4	508.5
85°	321.5	321.5	362.5	352.6	370.7	337.9	470.7	519.9	587.2	464.2	236.2
87.5°	127.9	141.1	237.8	213.2	165.7	132.9	173.9	183.7	203.4	182.1	98.4
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°	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9
2.5°	3954.5	3959.4	3947.9	3939.7	3936.5	3931.5	3926.6	3928.3	3934.8	3941.4	3939.7
5°	3974.2	3975.8	3956.1	3946.3	3939.7	3933.2	3933.2	3938.1	3951.2	3961.1	3961.1
7.5°	4023.4	4023.4	3995.5	3977.5	3967.6	3956.1	3952.9	3954.5	3964.3	3977.5	3979.1
10°	4100.5	4093.9	4057.8	4030.0	4011.9	3984.0	3959.4	3946.3	3951.2	3959.4	3959.4
12.5°	4194.0	4175.9	4130.0	4092.3	4048.0	3995.5	3944.7	3918.4	3916.8	3925.0	3921.7
15°	4294.0	4274.3	4210.4	4141.5	4064.4	3987.3	3926.6	3888.9	3859.4	3851.2	3869.2
17.5°	4410.5	4369.5	4280.9	4185.8	4071.0	3970.9	3875.8	3798.7	3746.2	3731.4	3736.4
20°	4551.5	4497.4	4377.7	4228.4	4066.0	3911.9	3764.2	3660.9	3575.6	3549.4	3552.7
22.5°	4746.7	4653.2	4477.7	4249.7	4025.0	3800.3	3595.3	3460.8	3357.5	3316.5	3341.1
25°	4968.1	4866.5	4572.9	4244.8	3918.4	3621.5	3395.2	3219.7	3126.2	3065.5	3078.6
27.5°	5273.2	5092.8	4674.6	4200.5	3765.9	3403.4	3141.0	2975.3	2890.0	2858.9	2873.6
30°	5663.6	5386.4	4784.4	4080.8	3524.8	3127.8	2885.1	2776.8	2726.0	2686.6	2699.8
32.5°	5945.7	5593.1	4809.0	3879.1	3264.0	2876.9	2711.2	2630.9	2575.1	2537.4	2545.6
35°	6147.4	5768.6	4797.6	3631.4	2991.7	2670.2	2573.5	2507.9	2417.6	2335.6	2320.9
37.5°	6418.1	5988.3	4713.9	3360.8	2722.7	2530.8	2461.9	2340.6	2211.0	2101.1	2096.2
40°	6833.0	6245.9	4535.1	3042.6	2493.1	2427.5	2343.8	2186.4	2047.0	1958.4	1951.8
42.5°	7261.1	6483.7	4292.4	2708.0	2304.5	2319.2	2217.5	2061.7	1976.4	1919.0	1912.5
45°	7784.4	6741.2	4030.0	2417.6	2165.1	2217.5	2107.6	2017.4	1966.6	1928.9	1919.0
47.5°	8350.2	7005.3	3734.7	2156.9	2047.0	2124.1	2061.7	2020.7	1992.8	1966.6	1955.1
50°	8960.4	7300.5	3457.5	1946.9	1940.3	2027.3	2056.8	2042.0	2025.6	2017.4	2007.6
52.5°	9629.6	7602.3	3224.6	1799.3	1846.9	1958.4	2058.4	2069.9	2069.9	2065.0	2058.4
55°	10082.3	7812.2	2988.4	1679.6	1751.7	1902.6	2055.2	2099.4	2115.9	2109.3	2102.7
57.5°	10416.9	7927.1	2691.6	1576.2	1671.4	1848.5	2037.1	2102.7	2119.1	2127.3	2124.1
60°	10485.8	7820.4	2302.8	1468.0	1584.4	1769.8	1971.5	2053.5	2074.8	2125.7	2130.6
62.5°	10175.8	7492.4	1915.7	1361.4	1477.8	1650.0	1882.9	1997.8	2040.4	2119.1	2127.3
64°	9795.2	7125.0	1700.9	1294.1	1408.9	1582.8	1838.7	1983.0	2038.8	2143.7	2150.3
65°	9516.4	6857.7	1566.4	1251.5	1364.6	1538.5	1814.1	1987.9	2053.5	2181.5	2191.3
67.5°	8489.6	5937.5	1295.8	1151.4	1259.7	1463.1	1819.0	2028.9	2050.2	2196.2	2194.6
70°	7025.0	4727.0	1085.8	1059.6	1158.0	1402.4	1799.3	1963.3	1965.0	2061.7	2038.8
72.5°	5260.1	3493.6	941.5	964.4	1044.8	1258.0	1699.2	1874.7	1846.9	1860.0	1837.0
75°	3613.3	2311.0	810.3	862.7	926.7	1112.1	1558.2	1702.5	1658.2	1641.8	1625.4
77.5°	1928.9	1277.7	674.1	762.7	805.3	961.2	1359.7	1499.1	1453.2	1389.2	1367.9
80°	780.7	602.0	542.9	631.5	656.1	774.2	1131.7	1218.7	1184.2	1072.7	1036.6
82.5°	392.0	360.8	426.5	497.0	498.6	552.7	841.4	923.4	846.3	710.2	679.0
85°	205.0	211.6	293.6	349.4	308.4	298.5	505.2	559.3	513.4	446.1	401.8
87.5°	73.8	85.3	154.2	152.5	108.3	57.4	111.5	54.1	29.5	18.0	23.0
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)