

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: P453721

Luminaire Tested: **GALN-SA4D-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453721
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-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27638 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

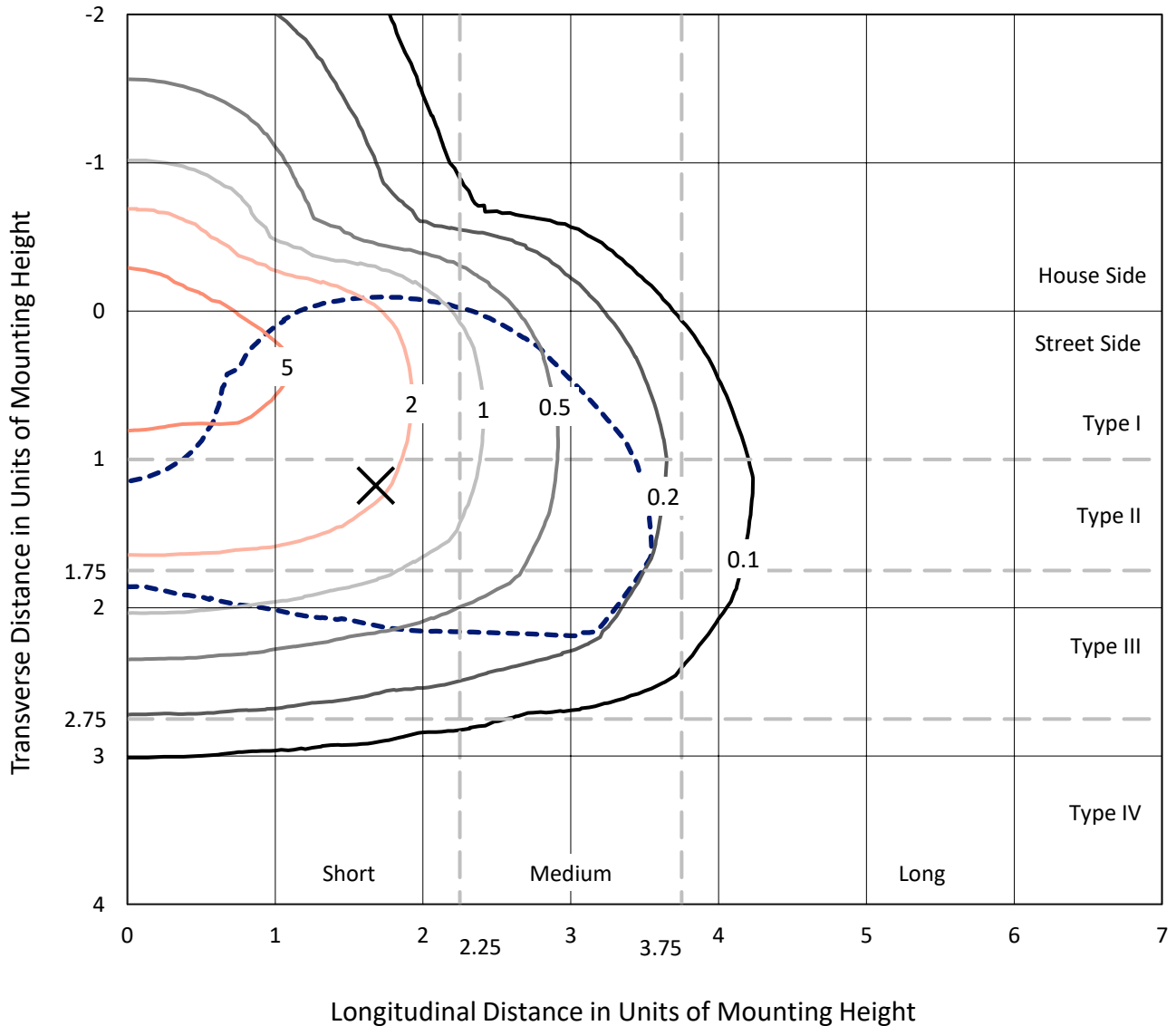
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

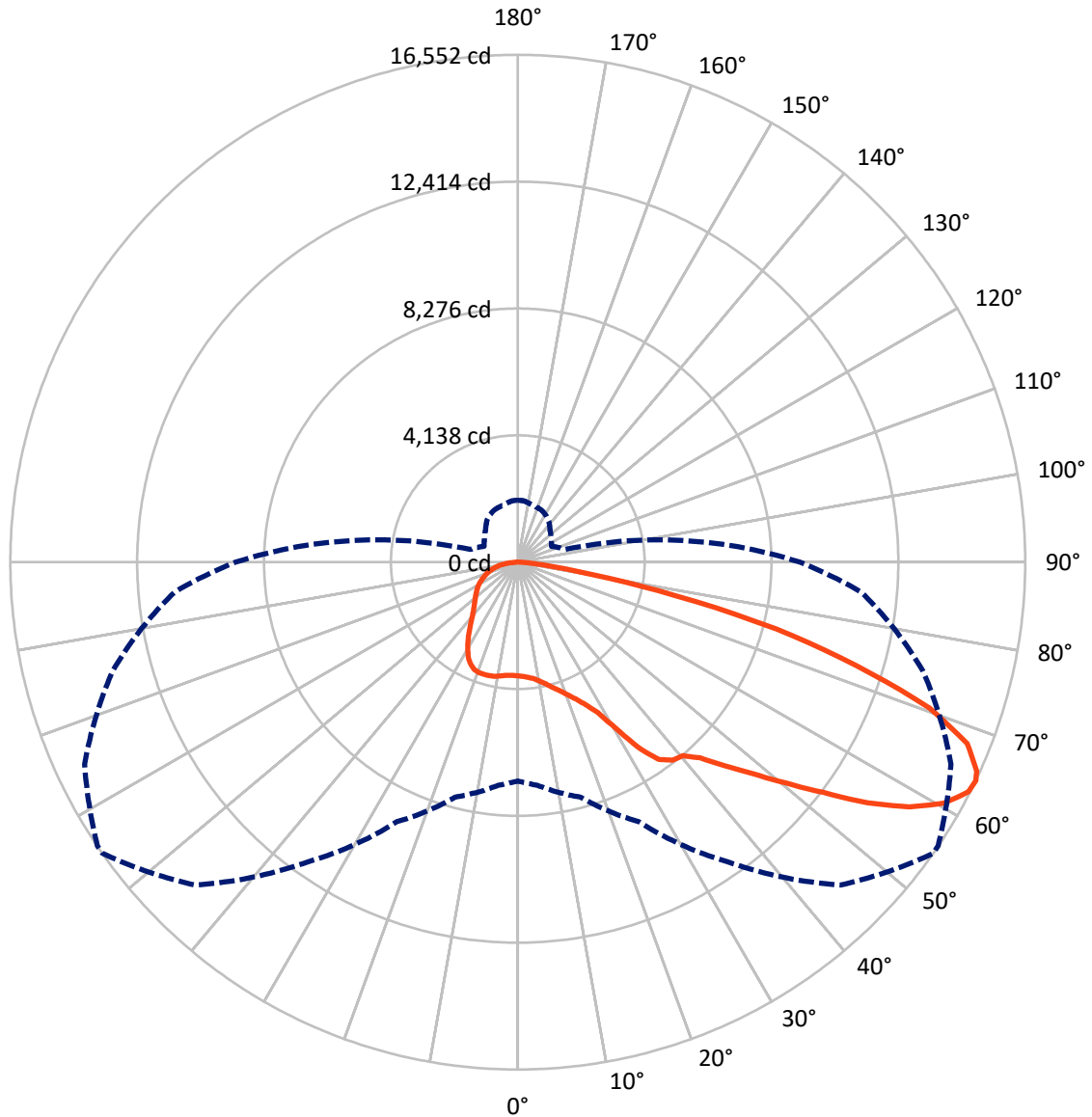
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	6713.8	0.0	6713.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	20924.2	0.0	20924.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	27638.0	0.0	27638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.7	1.3
10°-20°	1138.1	4.1
20°-30°	2026.2	7.3
30°-40°	3117.5	11.3
40°-50°	4419.3	16.0
50°-60°	6396.9	23.1
60°-70°	6620.1	24.0
70°-80°	3100.2	11.2
80°-90°	458.9	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°	27638.0	100.0
0°-180°	27638.0	100.0

Coefficient of Utilization



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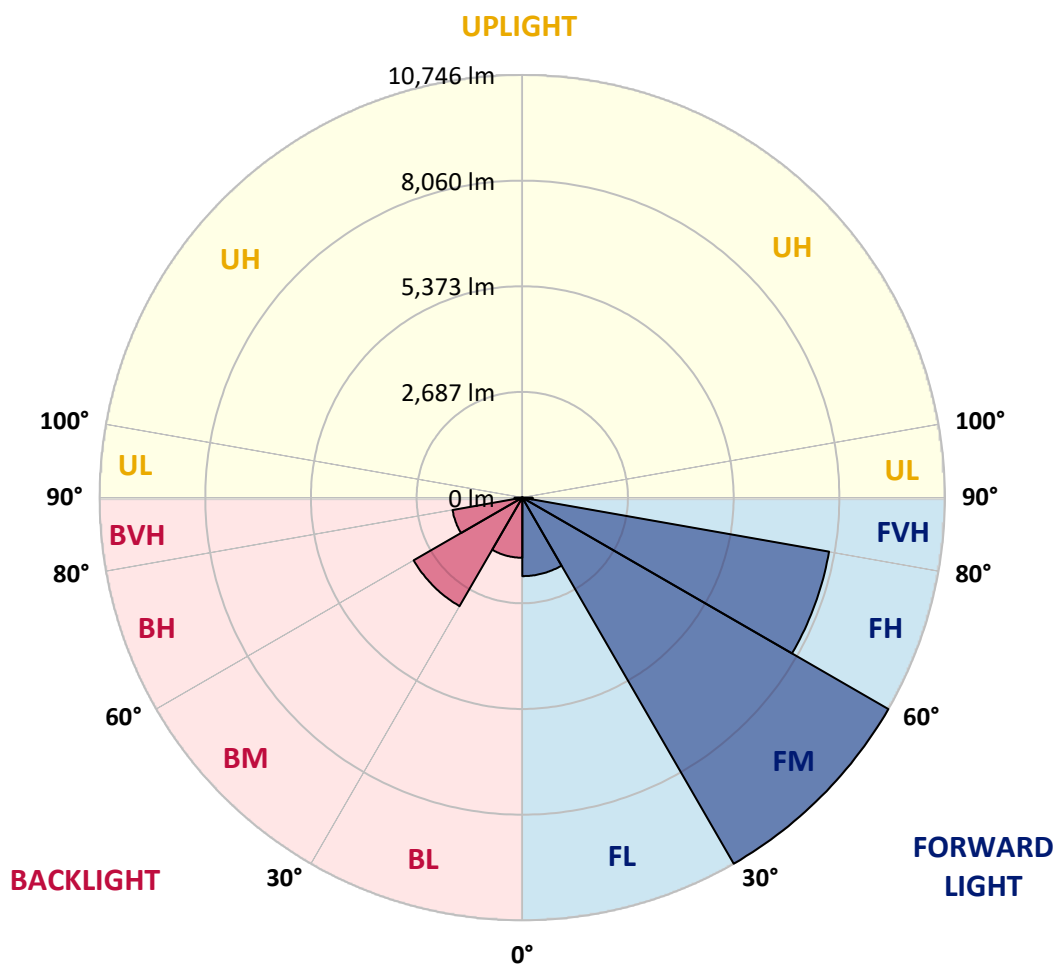
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1995.9	7.2			
FM	(30°-60°)	10746.4	38.9			
FH	(60°-80°)	7919.1	28.7			G4/12000
FVH	(80°-90°)	262.8	1.0			G3/500
BL	(0°-30°)	1529.1	5.5	B3/2500		
BM	(30°-60°)	3187.3	11.5	B3/5000		
BH	(60°-80°)	1801.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	196.2	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°	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2
2.5°	3749.8	3748.2	3752.9	3748.2	3751.3	3740.5	3735.9	3739.0	3734.4	3726.7	3712.8
5°	3796.0	3794.5	3796.0	3789.8	3792.9	3786.8	3776.0	3779.1	3771.3	3754.4	3734.4
7.5°	3874.6	3868.4	3868.4	3866.9	3860.7	3851.5	3843.8	3840.7	3833.0	3811.4	3780.6
10°	3976.2	3976.2	3977.8	3965.5	3973.2	3956.2	3948.5	3947.0	3920.8	3893.1	3849.9
12.5°	4110.3	4118.0	4113.4	4107.2	4104.1	4098.0	4071.8	4077.9	4048.7	4000.9	3948.5
15°	4276.7	4289.0	4281.3	4278.2	4270.5	4247.4	4236.6	4232.0	4193.5	4124.1	4054.8
17.5°	4497.0	4481.6	4475.4	4467.7	4435.3	4418.4	4399.9	4396.8	4362.9	4281.3	4173.4
20°	4689.5	4711.1	4698.8	4691.1	4658.7	4626.4	4612.5	4607.9	4578.6	4489.3	4316.7
22.5°	4919.1	4923.7	4928.3	4909.8	4894.4	4869.8	4845.1	4837.4	4826.6	4734.2	4523.2
25°	5164.0	5182.5	5167.1	5148.6	5130.1	5128.6	5151.7	5148.6	5144.0	5054.7	4797.4
27.5°	5563.0	5580.0	5584.6	5564.6	5493.7	5499.9	5552.3	5569.2	5640.1	5492.2	5150.2
30°	5788.0	5804.9	5843.4	5918.9	6031.4	6130.0	6256.3	6294.8	6362.6	6083.8	5569.2
32.5°	5926.6	5932.8	6002.1	6142.3	6479.7	6847.9	7191.4	7205.3	7248.4	6857.1	5952.8
35°	6145.4	6150.0	6205.5	6359.5	6755.5	7368.6	7900.1	7917.1	7881.6	7097.5	6131.5
37.5°	6415.0	6427.3	6462.7	6590.6	7063.6	7804.6	8194.4	8182.0	7867.8	7288.5	6447.3
40°	6807.8	6807.8	6766.2	6938.8	7388.6	8054.2	8297.6	8276.0	8192.8	7841.6	6928.0
42.5°	7154.5	7148.3	7246.9	7364.0	7795.4	8439.3	8730.5	8765.9	8903.0	8536.4	7474.9
45°	7605.9	7633.6	7689.1	7901.7	8487.1	9097.1	9473.1	9506.9	9701.1	9354.4	8114.3
47.5°	8061.9	8071.1	8245.2	8528.7	9343.6	9989.1	10297.3	10352.7	10529.9	10311.1	8802.9
50°	8385.4	8473.2	8752.1	9198.8	10226.4	11076.8	11317.1	11383.4	11696.1	11352.6	9605.5
52.5°	8727.4	8813.7	9154.1	9835.1	11240.1	12189.1	12484.9	12529.6	12854.6	12406.3	10426.7
55°	9020.1	9100.2	9486.9	10398.9	12047.4	13324.5	13860.6	13808.3	13963.9	13218.2	11059.9
57.5°	9067.9	9132.6	9619.4	10759.4	12654.4	14298.2	15066.9	15097.7	14917.5	13825.2	11582.1
60°	8698.1	8830.6	9389.9	10720.9	12927.0	14976.0	15966.6	15988.2	15476.7	14136.4	11790.1
62.5°	8043.4	8029.5	8705.8	10101.6	12545.0	15130.1	16496.6	16473.5	15695.5	13987.0	11588.3
64°	7139.1	7305.4	7937.1	9340.6	11928.7	14892.8	16552.0	16539.7	15590.7	13675.8	11244.7
65°	6587.5	6578.3	7202.2	8718.2	11315.6	14535.4	16453.4	16436.5	15371.9	13396.9	10978.2
67.5°	4755.8	4777.4	5393.6	6727.7	9198.8	13138.1	15811.0	15747.8	14509.2	12472.6	9964.5
70°	2880.9	2893.2	3377.0	4463.1	6602.9	10620.8	14251.9	14255.0	13188.9	11092.2	8480.9
72.5°	1517.5	1549.8	1743.9	2534.3	4010.1	7451.8	11562.1	11836.3	11323.3	9466.9	6700.0
75°	844.2	848.9	986.0	1249.4	2045.9	4170.4	8690.4	8769.0	8964.7	7619.7	4954.5
77.5°	644.0	653.2	696.3	807.3	1113.8	1933.4	5259.6	5653.9	6317.9	5372.0	2827.0
80°	522.3	531.5	568.5	634.7	741.0	916.6	2443.4	2656.0	3381.6	2384.8	1103.1
82.5°	406.7	400.6	448.3	491.4	539.2	542.3	1002.9	1109.2	1377.3	1026.0	477.6
85°	302.0	302.0	340.5	331.2	348.2	317.4	442.1	488.4	551.5	436.0	221.8
87.5°	120.2	132.5	223.4	200.3	155.6	124.8	163.3	172.5	191.0	171.0	92.4
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°	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2
2.5°	3714.3	3719.0	3708.2	3700.5	3697.4	3692.8	3688.2	3689.7	3695.9	3702.0	3700.5
5°	3732.8	3734.4	3715.9	3706.6	3700.5	3694.3	3694.3	3698.9	3711.3	3720.5	3720.5
7.5°	3779.1	3779.1	3752.9	3735.9	3726.7	3715.9	3712.8	3714.3	3723.6	3735.9	3737.5
10°	3851.5	3845.3	3811.4	3785.2	3768.3	3742.1	3719.0	3706.6	3711.3	3719.0	3719.0
12.5°	3939.3	3922.3	3879.2	3843.8	3802.2	3752.9	3705.1	3680.5	3678.9	3686.6	3683.5
15°	4033.2	4014.8	3954.7	3890.0	3817.6	3745.2	3688.2	3652.7	3625.0	3617.3	3634.2
17.5°	4142.6	4104.1	4020.9	3931.6	3823.7	3729.8	3640.4	3568.0	3518.7	3504.8	3509.5
20°	4275.1	4224.3	4111.8	3971.6	3819.1	3674.3	3535.6	3438.6	3358.5	3333.8	3336.9
22.5°	4458.4	4370.6	4205.8	3991.7	3780.6	3569.5	3377.0	3250.6	3153.6	3115.1	3138.2
25°	4666.4	4570.9	4295.1	3987.0	3680.5	3401.6	3189.0	3024.2	2936.4	2879.4	2891.7
27.5°	4953.0	4783.5	4390.7	3945.4	3537.2	3196.7	2950.2	2794.6	2714.5	2685.2	2699.1
30°	5319.6	5059.3	4493.9	3833.0	3310.7	2937.9	2709.9	2608.2	2560.5	2523.5	2535.8
32.5°	5584.6	5253.4	4517.0	3643.5	3065.8	2702.2	2546.6	2471.1	2418.7	2383.3	2391.0
35°	5774.1	5418.2	4506.2	3410.9	2810.0	2508.1	2417.2	2355.6	2270.8	2193.8	2179.9
37.5°	6028.3	5624.7	4427.6	3156.7	2557.4	2377.1	2312.4	2198.4	2076.7	1973.5	1968.9
40°	6418.1	5866.5	4259.7	2857.8	2341.7	2280.1	2201.5	2053.6	1922.6	1839.5	1833.3
42.5°	6820.2	6089.9	4031.7	2543.5	2164.5	2178.4	2082.9	1936.5	1856.4	1802.5	1796.3
45°	7311.6	6331.8	3785.2	2270.8	2033.6	2082.9	1979.7	1894.9	1847.2	1811.7	1802.5
47.5°	7843.1	6579.8	3507.9	2025.9	1922.6	1995.1	1936.5	1898.0	1871.8	1847.2	1836.4
50°	8416.2	6857.1	3247.6	1828.7	1822.5	1904.2	1931.9	1918.0	1902.6	1894.9	1885.7
52.5°	9044.8	7140.6	3028.8	1690.0	1734.7	1839.5	1933.4	1944.2	1944.2	1939.6	1933.4
55°	9470.0	7337.8	2806.9	1577.6	1645.3	1787.1	1930.4	1971.9	1987.4	1981.2	1975.0
57.5°	9784.2	7445.6	2528.1	1480.5	1569.9	1736.2	1913.4	1975.0	1990.4	1998.1	1995.1
60°	9849.0	7345.5	2163.0	1378.8	1488.2	1662.3	1851.8	1928.8	1948.8	1996.6	2001.2
62.5°	9557.8	7037.4	1799.4	1278.7	1388.1	1549.8	1768.6	1876.4	1916.5	1990.4	1998.1
64°	9200.4	6692.3	1597.6	1215.5	1323.4	1486.7	1727.0	1862.6	1914.9	2013.5	2019.7
65°	8938.5	6441.2	1471.3	1175.5	1281.8	1445.1	1703.9	1867.2	1928.8	2049.0	2058.2
67.5°	7974.1	5576.9	1217.1	1081.5	1183.2	1374.2	1708.5	1905.7	1925.7	2062.8	2061.3
70°	6598.3	4440.0	1019.9	995.2	1087.7	1317.2	1690.0	1844.1	1845.6	1936.5	1914.9
72.5°	4940.7	3281.4	884.3	905.9	981.4	1181.6	1596.0	1760.9	1734.7	1747.0	1725.5
75°	3393.9	2170.7	761.0	810.3	870.4	1044.5	1463.6	1599.1	1557.5	1542.1	1526.7
77.5°	1811.7	1200.1	633.2	716.4	756.4	902.8	1277.1	1408.1	1365.0	1304.9	1284.8
80°	733.3	565.4	509.9	593.1	616.2	727.2	1063.0	1144.7	1112.3	1007.5	973.6
82.5°	368.2	338.9	400.6	466.8	468.3	519.2	790.3	867.3	794.9	667.1	637.8
85°	192.6	198.7	275.8	328.1	289.6	280.4	474.5	525.3	482.2	419.0	377.4
87.5°	69.3	80.1	144.8	143.3	101.7	53.9	104.8	50.8	27.7	16.9	21.6
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)