

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: P457901

Luminaire Tested: **GALN-SA9B-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46875 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

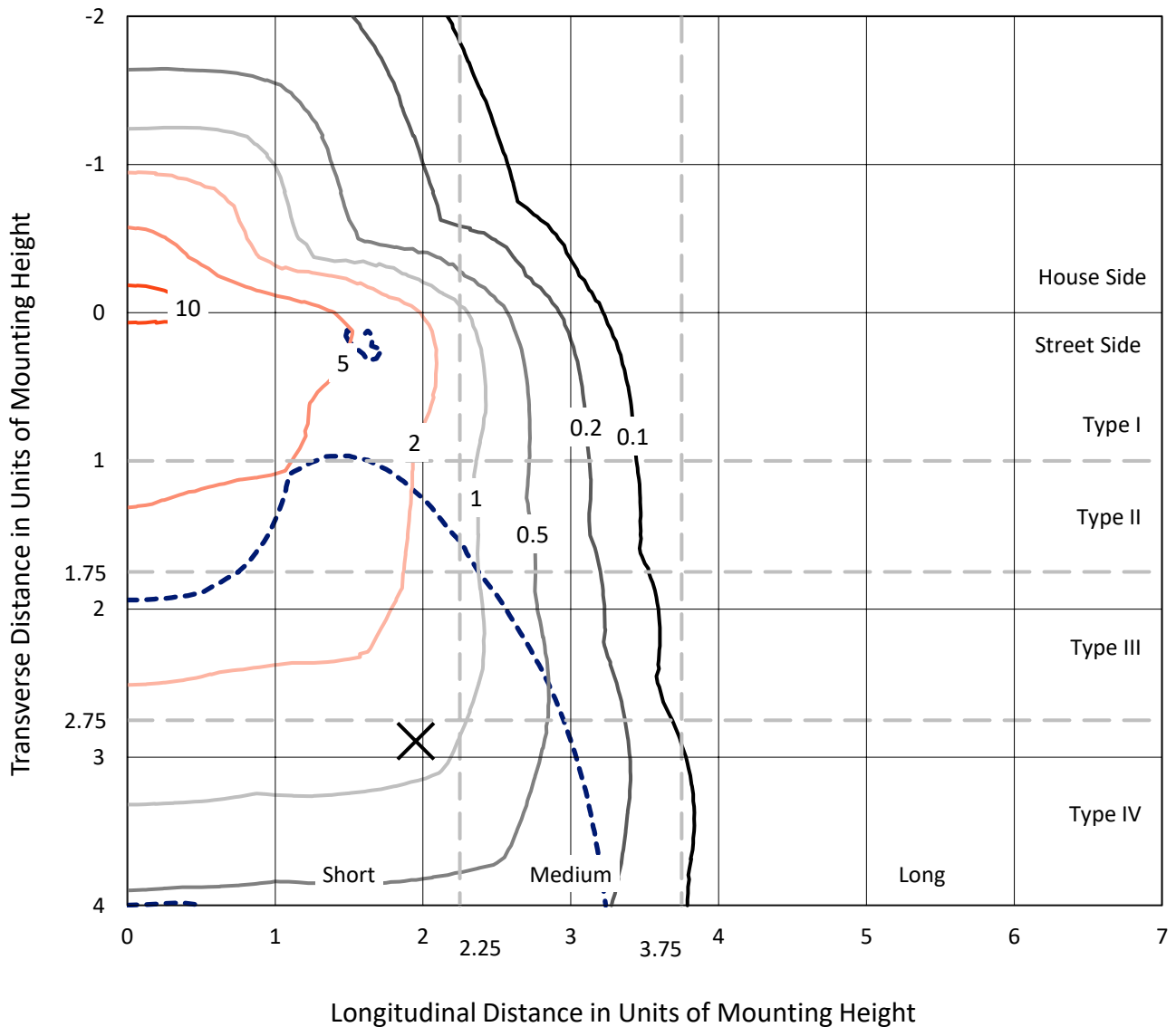
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

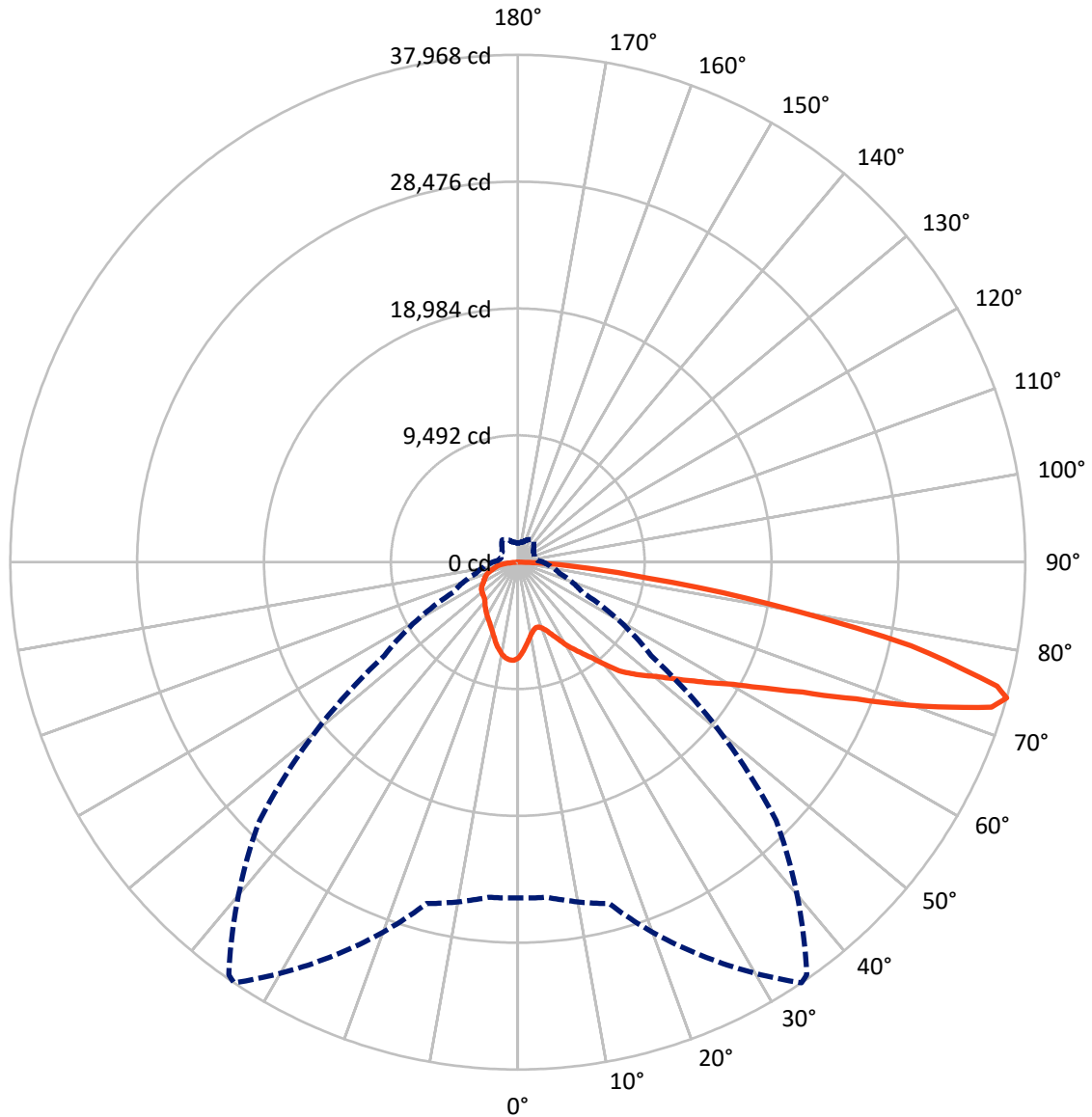
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9975.3	0.0	9975.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	36899.7	0.0	36899.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	46875.0	0.0	46875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.9	1.4
10°-20°	1781.8	3.8
20°-30°	2937.7	6.3
30°-40°	4400.3	9.4
40°-50°	6396.9	13.6
50°-60°	8934.9	19.1
60°-70°	11186.0	23.9
70°-80°	9250.0	19.7
80°-90°	1336.5	2.9
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°	46875.0	100.0
0°-180°	46875.0	100.0

Coefficient of Utilization



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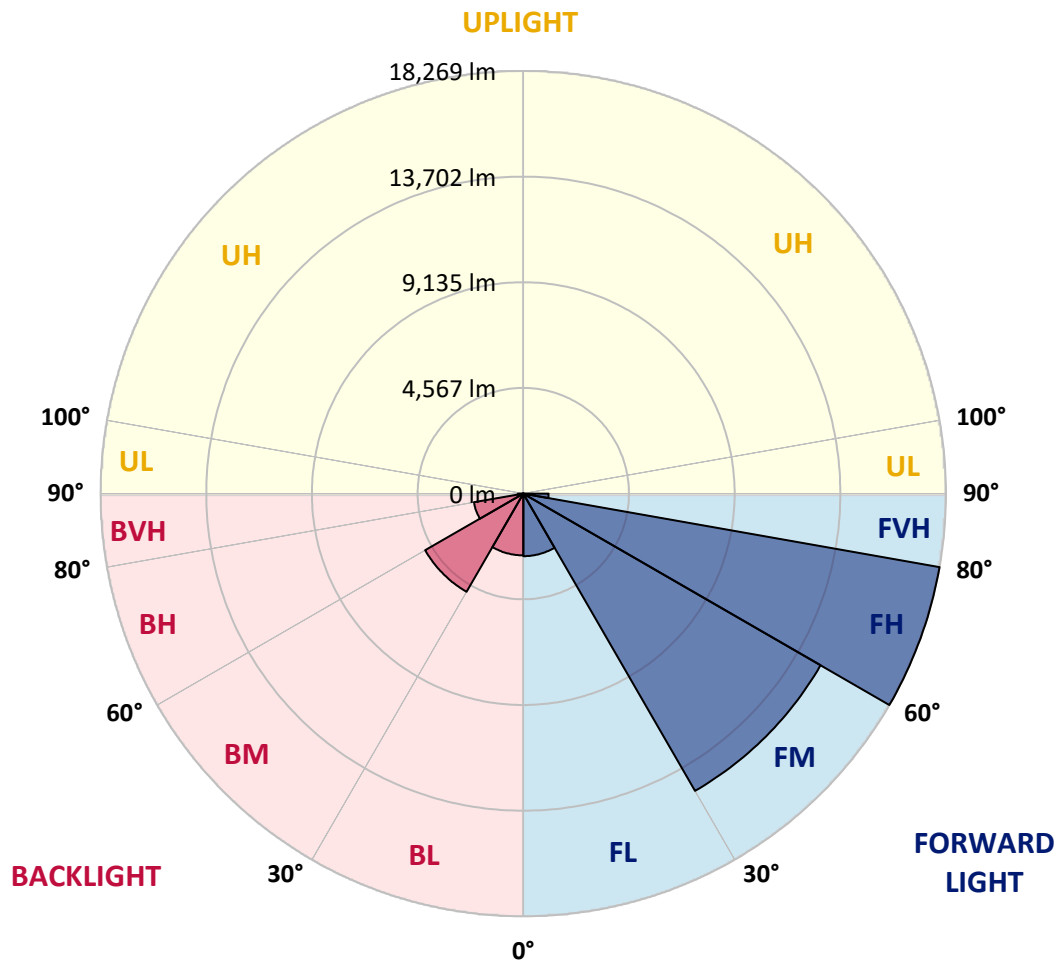
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2702.1	5.8			
FM (30°-60°)	14833.2	31.6			
FH (60°-80°)	18269.4	39.0			G5
FVH (80°-90°)	1095.0	2.3			G5
BL (0°-30°)	2668.2	5.7	B4/5000		
BM (30°-60°)	4898.9	10.5	B3/5000		
BH (60°-80°)	2166.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	241.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9
2.5°	6614.1	6647.9	6666.1	6731.0	6746.6	6767.4	6821.9	6894.6	6988.1	7071.2	7143.9
5°	6063.6	6115.6	6146.7	6203.8	6315.5	6325.9	6471.3	6637.5	6827.1	7003.7	7149.1
7.5°	5541.7	5598.8	5624.8	5728.6	5876.6	5900.0	6113.0	6375.2	6692.1	6959.5	7182.9
10°	5149.5	5178.1	5235.2	5313.1	5489.7	5505.3	5783.2	6133.7	6544.0	6938.8	7240.0
12.5°	4936.6	4952.2	4965.2	5048.3	5222.2	5245.6	5536.5	5933.8	6427.2	6954.3	7333.5
15°	4967.8	4972.9	4915.8	4931.4	5071.6	5105.4	5393.6	5801.3	6354.5	6993.3	7473.7
17.5°	5230.0	5211.9	5071.6	4998.9	5097.6	5113.2	5365.1	5749.4	6320.7	7066.0	7619.1
20°	5642.9	5617.0	5375.5	5214.5	5271.6	5284.6	5458.6	5788.4	6354.5	7185.5	7845.0
22.5°	6157.1	6146.7	5780.6	5585.8	5583.2	5583.2	5674.1	5928.6	6455.7	7349.1	8081.4
25°	6876.4	6821.9	6344.1	6092.2	6022.1	6016.9	6006.5	6159.7	6585.6	7523.0	8361.8
27.5°	7613.9	7520.4	7094.6	6707.6	6557.0	6538.8	6471.3	6486.9	6751.8	7720.4	8681.2
30°	8276.1	8216.4	7816.5	7388.0	7208.8	7167.3	6980.3	6894.6	7029.6	8076.2	9190.2
32.5°	8782.5	8746.2	8434.5	8045.0	7780.1	7772.3	7499.7	7429.6	7463.3	8507.2	9771.9
35°	9192.8	9205.8	9047.4	8709.8	8406.0	8361.8	8180.0	8091.7	7993.1	9130.5	10504.2
37.5°	9753.7	9782.3	9771.9	9481.1	9109.7	9120.1	9078.5	8933.1	8670.8	9826.4	11317.0
40°	10371.8	10392.5	10389.9	10278.3	10083.5	10093.9	10078.3	9912.1	9520.0	10712.0	12220.7
42.5°	11226.1	11127.5	10870.4	10982.0	11096.3	11145.6	11252.1	11093.7	10556.1	11657.2	13069.9
45°	12181.8	11994.8	11413.1	11465.0	11888.3	11981.8	12568.7	12350.6	11680.6	12742.7	14069.7
47.5°	12784.2	12599.9	12109.1	12098.7	12659.6	12750.5	13789.2	13708.7	12703.7	13913.9	15290.2
50°	13321.8	13295.8	12742.7	12875.1	13423.1	13558.1	15118.8	15043.5	13724.3	15295.4	16619.8
52.5°	14119.0	13908.7	13467.2	13739.9	14464.4	14641.0	16438.0	16217.3	14661.7	16515.9	17910.4
55°	14477.4	14428.0	14402.1	14638.4	15633.0	15760.2	17720.8	17214.4	15461.6	17549.4	18892.0
57.5°	15435.6	15344.7	15601.8	15762.8	17009.3	17204.1	19060.8	18255.8	16162.7	18370.0	19369.8
60°	16676.9	16627.6	16863.9	17154.7	18546.6	18842.7	20587.7	19143.9	16726.2	18782.9	19107.5
62.5°	18531.0	18525.8	18481.7	19104.9	20725.4	20998.0	22340.6	20008.6	16814.5	18473.9	17752.0
65°	21190.2	21096.7	20712.4	21392.8	23436.5	23755.9	24166.2	20491.6	16282.2	16887.2	14947.4
67.5°	23971.4	23966.2	23654.6	24537.5	27329.1	27658.9	26448.8	20385.2	14804.6	13680.1	10615.9
70°	26277.4	26165.7	26563.1	28915.8	32302.1	32683.8	28445.8	19130.9	11792.2	9034.4	6307.7
72.5°	26830.5	26835.7	27661.5	32291.7	37077.7	37137.4	29165.1	15505.7	7891.8	4983.3	3155.2
74°	25127.0	25171.2	26451.4	32460.5	37968.4	37698.3	27326.5	12187.0	5336.5	3253.8	2274.8
75°	22935.3	22657.4	24509.0	31336.0	37043.9	36753.0	25173.7	9779.7	4071.8	2599.4	1991.8
77.5°	12262.3	12545.3	15401.8	23384.5	30094.8	29759.8	17069.0	4689.9	2199.5	1810.0	1433.5
80°	4365.3	4814.5	6767.4	12236.3	19294.5	19398.4	8146.3	2150.2	1547.7	1334.8	1012.8
82.5°	1781.4	1830.8	2905.9	5430.0	9797.9	9891.4	3326.5	1277.6	1106.3	919.3	605.1
85°	696.0	716.7	1285.4	2441.0	4180.9	4453.6	1150.4	675.2	680.4	527.2	309.0
87.5°	233.7	264.9	527.2	812.8	1420.5	1391.9	335.0	200.0	244.1	228.5	96.1
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°	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9	7156.9
2.5°	7180.3	7229.6	7263.4	7299.7	7333.5	7343.9	7336.1	7359.4	7362.0	7364.6	7367.2
5°	7221.8	7289.3	7354.2	7390.6	7406.2	7393.2	7349.1	7325.7	7304.9	7289.3	7294.5
7.5°	7278.9	7375.0	7434.7	7450.3	7408.8	7349.1	7240.0	7154.3	7099.8	7063.4	7060.8
10°	7367.2	7460.7	7510.1	7465.9	7351.6	7206.2	7034.8	6873.8	6751.8	6715.4	6712.8
12.5°	7478.9	7585.4	7582.8	7452.9	7253.0	6993.3	6715.4	6528.5	6362.3	6279.2	6312.9
15°	7624.3	7704.8	7629.5	7395.8	7079.0	6723.2	6380.4	6125.9	5939.0	5850.7	5855.9
17.5°	7793.1	7863.2	7663.3	7294.5	6834.9	6377.8	5980.5	5739.0	5591.0	5526.1	5520.9
20°	8003.5	8024.2	7663.3	7117.9	6520.7	5975.3	5596.2	5427.4	5344.3	5310.5	5320.9
22.5°	8229.4	8187.8	7621.7	6868.6	6107.8	5554.6	5300.1	5224.8	5183.3	5178.1	5183.3
25°	8483.9	8367.0	7536.0	6531.0	5676.7	5191.1	5043.1	5056.0	5063.8	5063.8	5082.0
27.5°	8795.5	8561.8	7393.2	6105.2	5172.9	4853.5	4811.9	4902.8	4944.4	4952.2	4965.2
30°	9205.8	8774.7	7156.9	5572.8	4744.4	4549.7	4622.4	4744.4	4791.2	4819.7	4814.5
32.5°	9694.0	9008.4	6837.5	5040.5	4399.0	4336.7	4425.0	4549.7	4601.6	4617.2	4596.4
35°	10267.9	9273.3	6416.8	4541.9	4097.8	4134.2	4238.0	4277.0	4323.7	4323.7	4334.1
37.5°	10885.9	9486.2	5902.6	4084.8	3864.1	3996.5	4071.8	4035.5	4014.7	3988.7	4001.7
40°	11514.4	9644.7	5235.2	3633.0	3630.4	3853.7	3874.5	3770.6	3687.5	3661.5	3648.6
42.5°	12062.3	9743.3	4632.8	3282.4	3409.6	3713.5	3729.1	3562.9	3430.4	3352.5	3326.5
45°	12708.9	9857.6	4043.3	2991.6	3204.5	3601.8	3640.8	3417.4	3222.7	3059.1	3017.5
47.5°	13594.4	10117.3	3578.4	2765.6	3056.5	3531.7	3586.2	3298.0	3040.9	2828.0	2794.2
50°	14594.2	10473.0	3217.5	2612.4	2942.2	3469.4	3536.9	3175.9	2872.1	2635.8	2609.8
52.5°	15510.9	10665.2	2905.9	2474.8	2830.6	3355.1	3472.0	3087.6	2705.9	2443.6	2420.3
55°	16012.1	10353.6	2599.4	2339.8	2677.3	3207.1	3381.1	2965.6	2544.9	2342.3	2308.6
57.5°	16079.6	9709.6	2321.6	2194.3	2516.3	3025.3	3212.3	2817.6	2441.0	2272.2	2243.7
60°	15557.7	8748.7	2106.0	2074.9	2352.7	2820.2	3022.7	2687.7	2334.6	2194.3	2165.8
62.5°	14259.2	7704.8	1955.4	1965.8	2186.5	2604.6	2882.5	2563.1	2233.3	2108.6	2082.7
65°	12026.0	6359.7	1810.0	1854.1	2038.5	2435.8	2755.2	2459.2	2132.0	2043.7	2020.3
67.5°	8354.0	4591.2	1690.5	1737.3	1898.3	2264.4	2607.2	2347.5	2017.7	1971.0	1934.6
70°	4625.0	2825.4	1550.3	1604.8	1752.9	2072.3	2441.0	2178.7	1851.5	1830.8	1778.8
72.5°	2430.6	1799.6	1391.9	1451.6	1555.5	1825.6	2186.5	1994.4	1687.9	1599.7	1532.1
74°	1898.3	1475.0	1285.4	1347.8	1417.9	1680.2	2035.9	1861.9	1571.1	1467.2	1415.3
75°	1654.2	1314.0	1194.5	1275.0	1337.4	1581.5	1919.1	1768.4	1506.2	1407.5	1360.7
77.5°	1168.6	984.2	976.4	1072.5	1106.3	1386.7	1729.5	1610.0	1342.6	1238.7	1194.5
80°	820.6	737.5	773.9	833.6	880.3	1225.7	1604.8	1391.9	1101.1	979.0	963.4
82.5°	534.9	483.0	553.1	607.7	623.2	903.7	1295.8	1056.9	802.4	651.8	605.1
85°	246.7	241.5	316.8	309.0	306.4	441.5	768.7	618.0	462.2	345.4	324.6
87.5°	62.3	59.7	77.9	64.9	77.9	67.5	70.1	18.2	2.6	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)