

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: P456973

Luminaire Tested: **GALN-SA8B-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456973
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-SA8B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 41754 lumens
Efficiency: N/A
Efficacy: 128.5 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

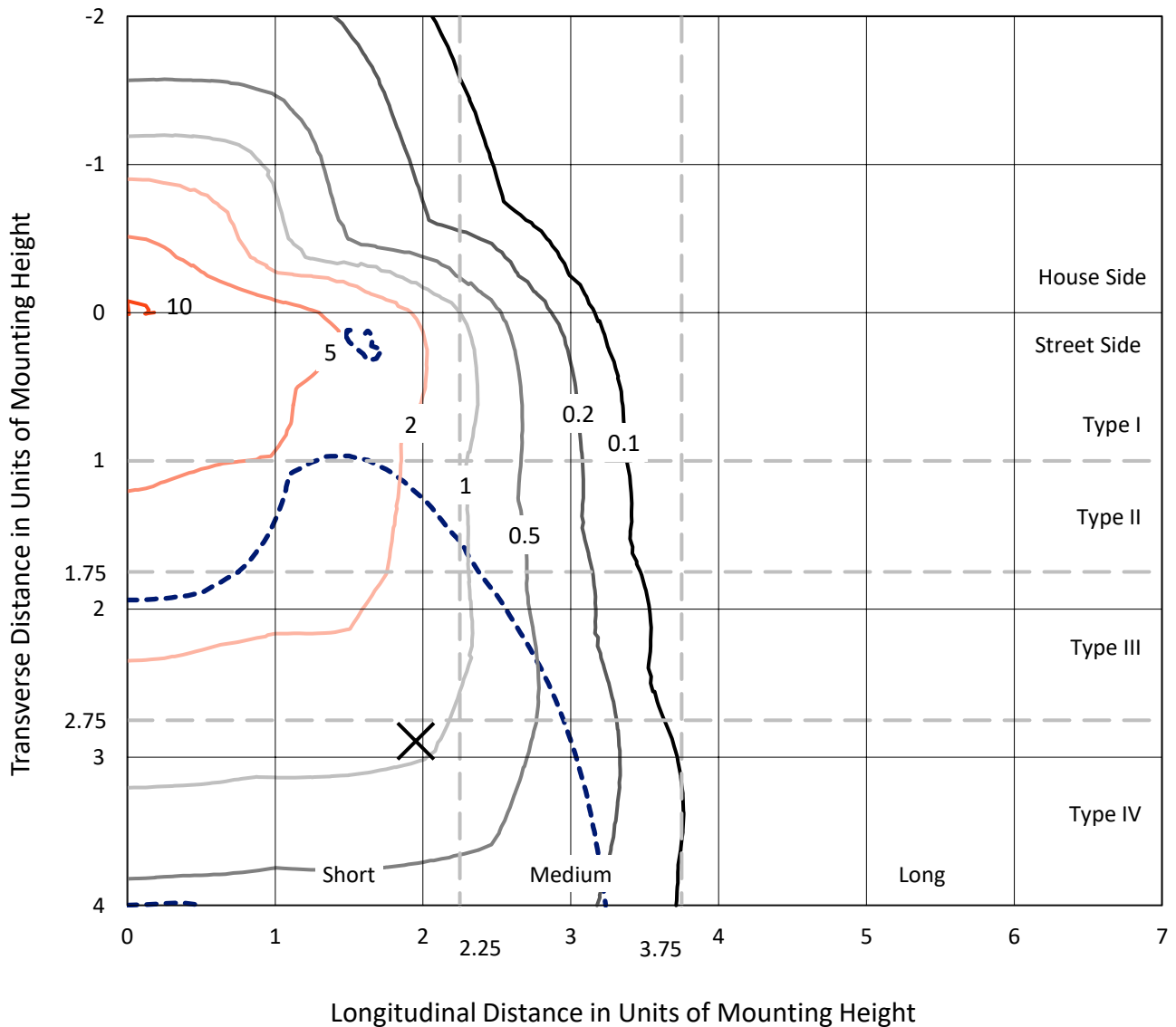
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

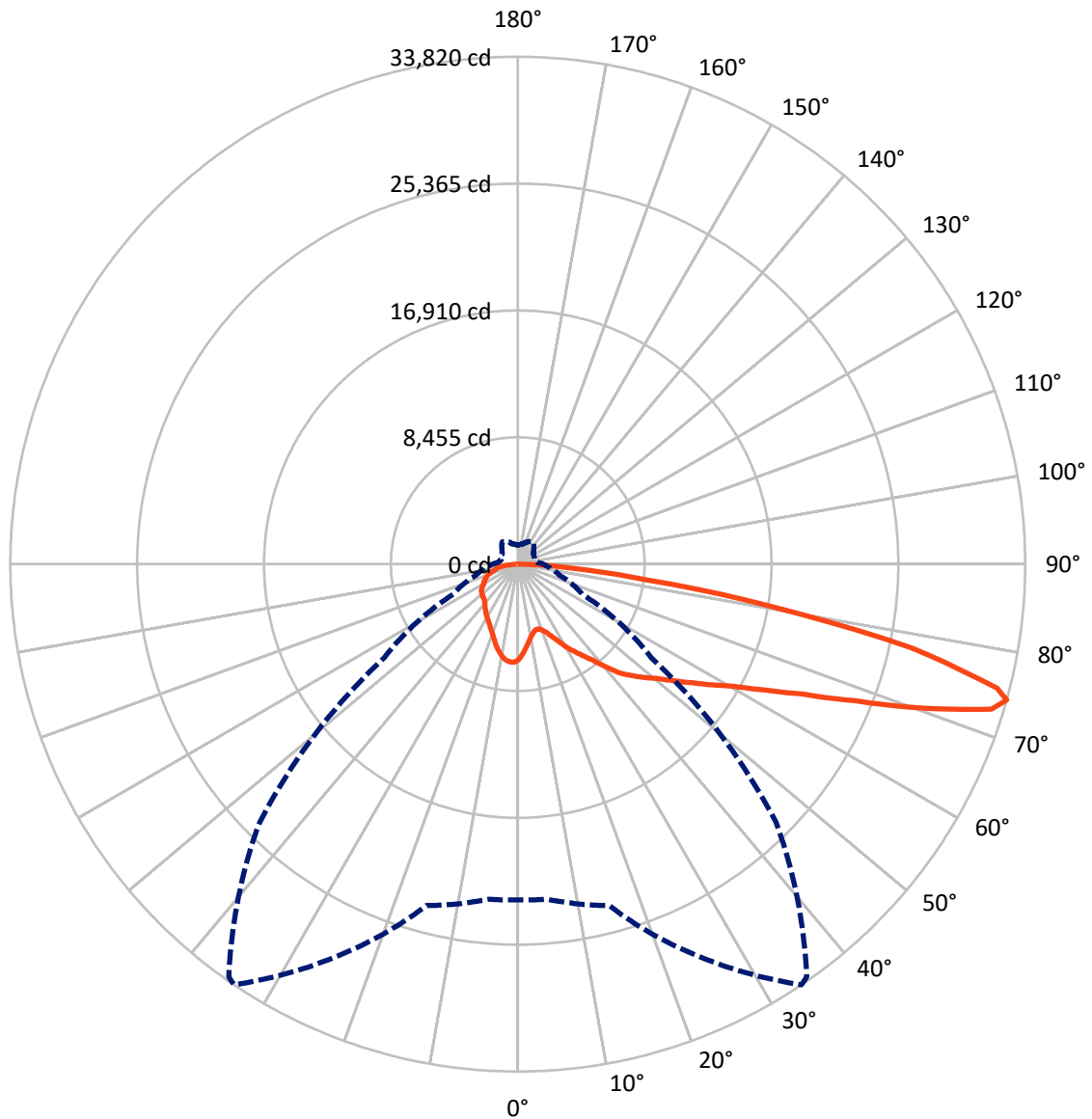
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	8885.6	0.0	8885.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	32868.5	0.0	32868.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	41754.0	0.0	41754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.8	1.4
10°-20°	1587.1	3.8
20°-30°	2616.8	6.3
30°-40°	3919.6	9.4
40°-50°	5698.0	13.6
50°-60°	7958.8	19.1
60°-70°	9964.0	23.9
70°-80°	8239.4	19.7
80°-90°	1190.5	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°	41754.0	100.0
0°-180°	41754.0	100.0

Coefficient of Utilization



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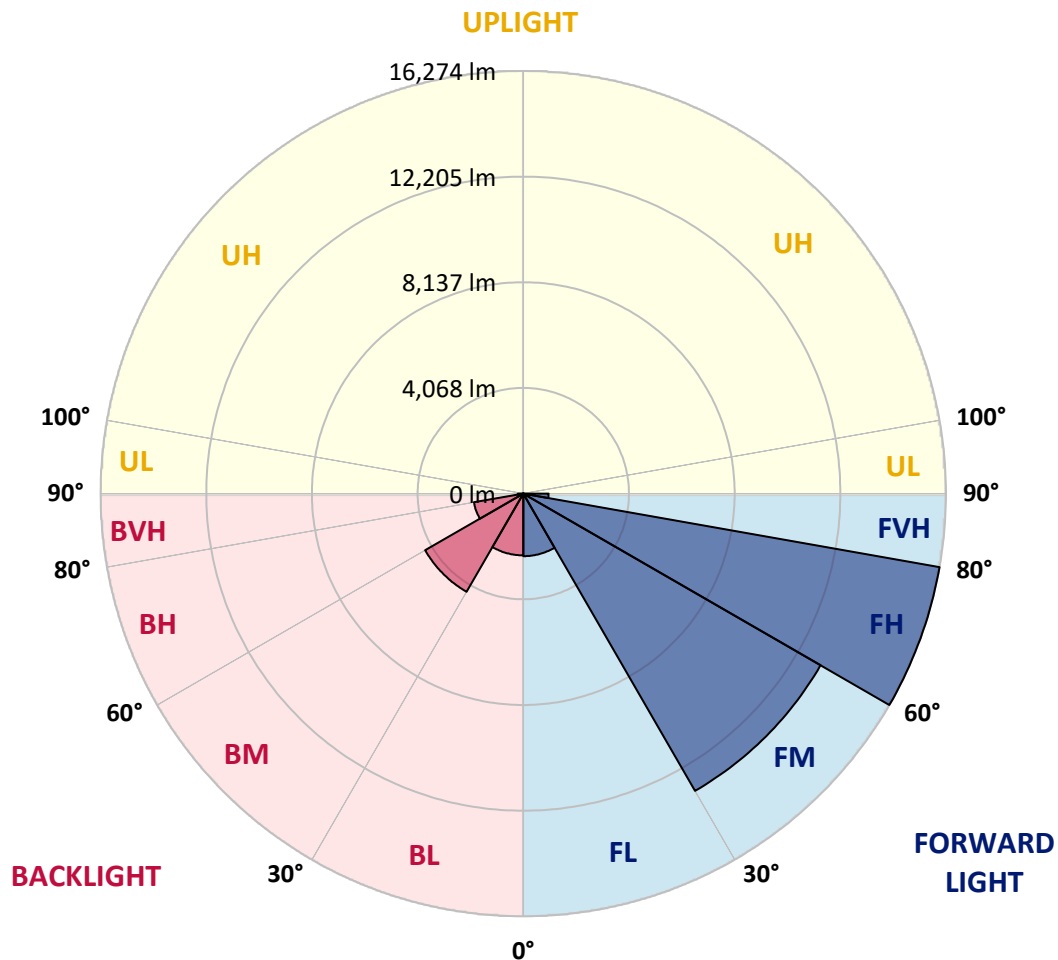
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2406.9	5.8			
FM	(30°-60°)	13212.7	31.6			
FH	(60°-80°)	16273.5	39.0			G5
FVH	(80°-90°)	975.3	2.3			G5
BL	(0°-30°)	2376.7	5.7	B3/2500		
BM	(30°-60°)	4363.7	10.5	B3/5000		
BH	(60°-80°)	1929.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	215.2	0.5			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0
2.5°	5891.6	5921.6	5937.8	5995.7	6009.5	6028.0	6076.6	6141.4	6224.7	6298.7	6363.4
5°	5401.2	5447.4	5475.2	5526.1	5625.6	5634.8	5764.3	5912.4	6081.2	6238.5	6368.1
7.5°	4936.2	4987.1	5010.3	5102.8	5234.6	5255.5	5445.1	5678.8	5961.0	6199.2	6398.1
10°	4587.0	4612.4	4663.3	4732.7	4890.0	4903.9	5151.4	5463.6	5829.1	6180.7	6449.0
12.5°	4397.3	4411.2	4422.7	4496.7	4651.7	4672.5	4931.6	5285.5	5725.0	6194.6	6532.3
15°	4425.0	4429.7	4378.8	4392.7	4517.6	4547.6	4804.4	5167.6	5660.3	6229.3	6657.2
17.5°	4658.7	4642.5	4517.6	4452.8	4540.7	4554.6	4778.9	5121.3	5630.2	6294.1	6786.7
20°	5026.5	5003.3	4788.2	4644.8	4695.7	4707.2	4862.2	5156.0	5660.3	6400.5	6988.0
22.5°	5484.5	5475.2	5149.0	4975.6	4973.2	4973.2	5054.2	5280.9	5750.5	6546.2	7198.5
25°	6125.2	6076.6	5651.0	5426.6	5364.2	5359.5	5350.3	5486.8	5866.1	6701.2	7448.3
27.5°	6782.1	6698.8	6319.5	5974.8	5840.7	5824.5	5764.3	5778.2	6014.2	6877.0	7732.8
30°	7372.0	7318.8	6962.5	6580.9	6421.3	6384.3	6217.7	6141.4	6261.7	7193.9	8186.2
32.5°	7823.0	7790.7	7513.1	7166.1	6930.2	6923.2	6680.3	6617.9	6648.0	7577.8	8704.3
35°	8188.5	8200.1	8059.0	7758.3	7487.6	7448.3	7286.4	7207.7	7119.8	8133.0	9356.6
37.5°	8688.1	8713.6	8704.3	8445.3	8114.5	8123.7	8086.7	7957.2	7723.6	8752.9	10080.7
40°	9238.7	9257.2	9254.9	9155.4	8981.9	8991.2	8977.3	8829.3	8480.0	9541.7	10885.6
42.5°	9999.7	9911.8	9682.8	9782.3	9884.0	9928.0	10022.8	9881.7	9402.9	10383.7	11642.0
45°	10850.9	10684.4	10166.2	10212.5	10589.5	10672.8	11195.6	11001.3	10404.5	11350.6	12532.6
47.5°	11387.6	11223.3	10786.2	10776.9	11276.6	11357.5	12282.8	12211.1	11315.9	12393.8	13619.8
50°	11866.4	11843.3	11350.6	11468.5	11956.6	12076.9	13467.1	13400.0	12224.9	13624.4	14804.1
52.5°	12576.5	12389.2	11995.9	12238.8	12884.2	13041.5	14642.2	14445.6	13060.0	14711.6	15953.7
55°	12895.7	12851.8	12828.7	13039.2	13925.1	14038.4	15784.9	15333.8	13772.4	15632.2	16828.1
57.5°	13749.3	13668.3	13897.3	14040.8	15151.1	15324.5	16978.4	16261.4	14397.0	16363.1	17253.7
60°	14855.0	14811.0	15021.5	15280.6	16520.4	16784.1	18338.6	17052.5	14898.9	16730.9	17020.1
62.5°	16506.6	16501.9	16462.6	17017.8	18461.2	18704.0	19899.9	17822.7	14977.6	16455.7	15812.6
65°	18875.2	18791.9	18449.6	19055.6	20876.1	21160.6	21526.1	18253.0	14503.4	15042.3	13314.4
67.5°	21352.6	21348.0	21070.4	21856.8	24343.5	24637.2	23559.3	18158.1	13187.2	12185.6	9456.1
70°	23406.6	23307.2	23661.1	25756.8	28773.1	29113.2	25338.1	17040.9	10504.0	8047.4	5618.6
72.5°	23899.3	23904.0	24639.6	28763.9	33027.0	33080.2	25978.9	13811.8	7029.6	4438.9	2810.5
74°	22381.9	22421.3	23561.6	28914.2	33820.4	33579.8	24341.2	10855.6	4753.5	2898.4	2026.3
75°	20429.6	20182.1	21831.4	27912.6	32996.9	32737.9	22423.6	8711.3	3627.0	2315.5	1774.2
77.5°	10922.6	11174.8	13719.2	20829.8	26807.0	26508.6	15204.3	4177.5	1959.2	1612.3	1276.9
80°	3888.4	4288.6	6028.0	10899.5	17186.6	17279.1	7256.3	1915.3	1378.6	1189.0	902.1
82.5°	1586.8	1630.8	2588.4	4836.8	8727.5	8810.7	2963.1	1138.1	985.4	818.9	539.0
85°	619.9	638.4	1145.0	2174.4	3724.2	3967.0	1024.7	601.4	606.0	469.6	275.3
87.5°	208.2	235.9	469.6	724.0	1265.3	1239.8	298.4	178.1	217.4	203.6	85.6
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°	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0
2.5°	6395.8	6439.8	6469.8	6502.2	6532.3	6541.6	6534.6	6555.4	6557.7	6560.1	6562.4
5°	6432.8	6493.0	6550.8	6583.2	6597.1	6585.5	6546.2	6525.4	6506.9	6493.0	6497.6
7.5°	6483.7	6569.3	6622.5	6636.4	6599.4	6546.2	6449.0	6372.7	6324.1	6291.7	6289.4
10°	6562.4	6645.6	6689.6	6650.3	6548.5	6419.0	6266.3	6122.9	6014.2	5981.8	5979.5
12.5°	6661.8	6756.7	6754.4	6638.7	6460.6	6229.3	5981.8	5815.2	5667.2	5593.2	5623.2
15°	6791.4	6863.1	6796.0	6587.8	6305.6	5988.7	5683.4	5456.7	5290.1	5211.5	5216.1
17.5°	6941.7	7004.2	6826.1	6497.6	6088.2	5681.1	5327.2	5112.0	4980.2	4922.4	4917.7
20°	7129.1	7147.6	6826.1	6340.3	5808.3	5322.5	4984.8	4834.5	4760.4	4730.4	4739.6
22.5°	7330.3	7293.3	6789.1	6118.3	5440.5	4947.8	4721.1	4654.0	4617.0	4612.4	4617.0
25°	7557.0	7452.9	6712.7	5817.5	5056.5	4624.0	4492.1	4503.7	4510.6	4510.6	4526.8
27.5°	7834.6	7626.4	6585.5	5438.2	4607.8	4323.3	4286.2	4367.2	4404.2	4411.2	4422.7
30°	8200.1	7816.1	6375.0	4964.0	4226.1	4052.6	4117.4	4226.1	4267.7	4293.2	4288.6
32.5°	8634.9	8024.3	6090.5	4489.8	3918.5	3862.9	3941.6	4052.6	4098.9	4112.8	4094.3
35°	9146.2	8260.2	5715.8	4045.7	3650.1	3682.5	3775.0	3809.7	3851.4	3851.4	3860.6
37.5°	9696.7	8449.9	5257.8	3638.6	3442.0	3559.9	3627.0	3594.6	3576.1	3553.0	3564.5
40°	10256.5	8591.0	4663.3	3236.1	3233.8	3432.7	3451.2	3358.7	3284.7	3261.5	3250.0
42.5°	10744.5	8678.9	4126.6	2923.8	3037.2	3307.8	3321.7	3173.6	3055.7	2986.3	2963.1
45°	11320.5	8780.7	3601.6	2664.7	2854.4	3208.3	3243.0	3044.1	2870.6	2724.9	2687.9
47.5°	12109.3	9012.0	3187.5	2463.5	2722.6	3145.9	3194.4	2937.7	2708.7	2519.0	2488.9
50°	12999.8	9328.9	2866.0	2327.0	2620.8	3090.4	3150.5	2829.0	2558.3	2347.8	2324.7
52.5°	13816.4	9500.1	2588.4	2204.4	2521.3	2988.6	3092.7	2750.3	2410.3	2176.7	2155.8
55°	14262.8	9222.5	2315.5	2084.1	2384.8	2856.7	3011.7	2641.6	2266.9	2086.5	2056.4
57.5°	14323.0	8648.8	2067.9	1954.6	2241.4	2694.8	2861.4	2509.8	2174.4	2024.0	1998.6
60°	13858.0	7793.0	1876.0	1848.2	2095.7	2512.1	2692.5	2394.1	2079.5	1954.6	1929.2
62.5°	12701.4	6863.1	1741.8	1751.0	1947.7	2320.1	2567.6	2283.1	1989.3	1878.3	1855.1
65°	10712.1	5664.9	1612.3	1651.6	1815.8	2169.7	2454.2	2190.5	1899.1	1820.4	1799.6
67.5°	7441.4	4089.6	1505.9	1547.5	1690.9	2017.1	2322.4	2091.1	1797.3	1755.7	1723.3
70°	4119.7	2516.7	1380.9	1429.5	1561.4	1845.9	2174.4	1940.7	1649.3	1630.8	1584.5
72.5°	2165.1	1603.0	1239.8	1293.0	1385.6	1626.1	1947.7	1776.5	1503.5	1424.9	1364.8
74°	1690.9	1313.9	1145.0	1200.5	1263.0	1496.6	1813.5	1658.5	1399.4	1306.9	1260.7
75°	1473.5	1170.4	1064.0	1135.8	1191.3	1408.7	1709.4	1575.2	1341.6	1253.7	1212.1
77.5°	1040.9	876.7	869.7	955.3	985.4	1235.2	1540.6	1434.1	1195.9	1103.4	1064.0
80°	731.0	656.9	689.3	742.5	784.2	1091.8	1429.5	1239.8	980.8	872.1	858.2
82.5°	476.5	430.2	492.7	541.3	555.2	805.0	1154.3	941.4	714.8	580.6	539.0
85°	219.7	215.1	282.2	275.3	273.0	393.2	684.7	550.5	411.7	307.6	289.1
87.5°	55.5	53.2	69.4	57.8	69.4	60.1	62.5	16.2	2.3	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)