

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: P457895

Luminaire Tested: **GALN-SA9B-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47878 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

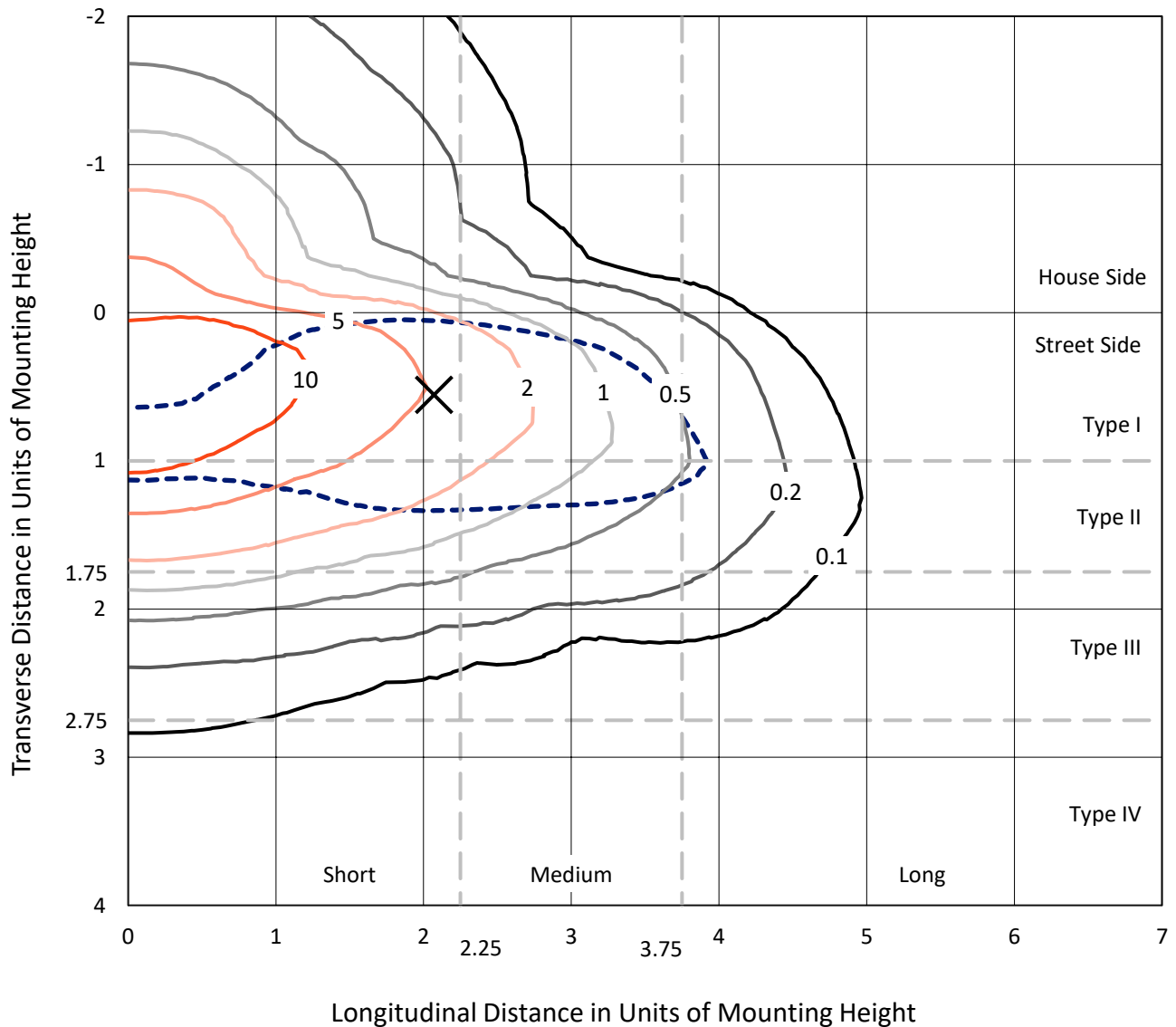
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

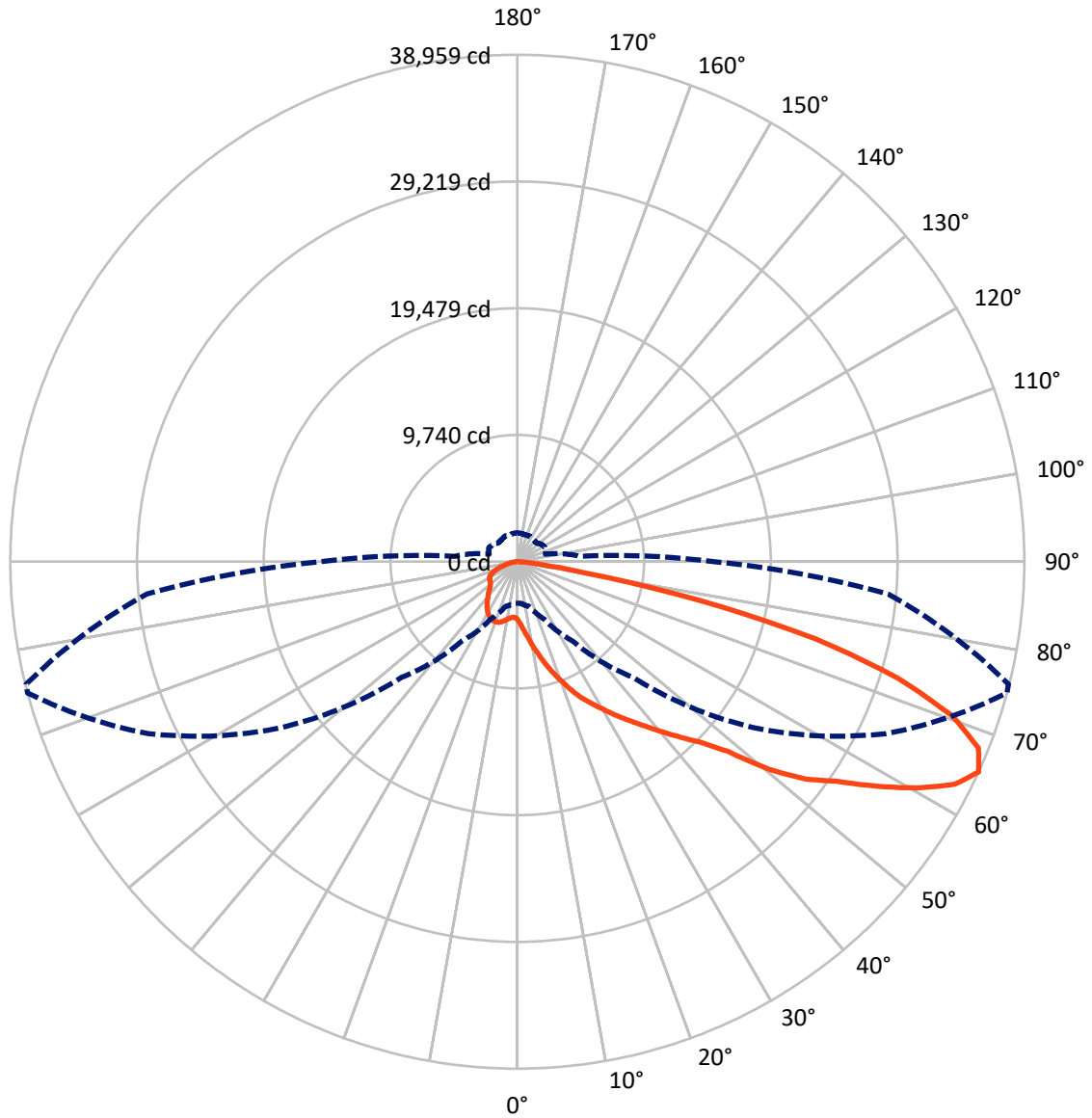
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8048.9	0.0	8048.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39829.1	0.0	39829.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	47878.0	0.0	47878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.5	1.1
10°-20°	2117.0	4.4
20°-30°	4089.3	8.5
30°-40°	6642.2	13.9
40°-50°	9137.0	19.1
50°-60°	10787.6	22.5
60°-70°	9451.7	19.7
70°-80°	4512.3	9.4
80°-90°	600.4	1.3
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°	47878.0	100.0
0°-180°	47878.0	100.0

Coefficient of Utilization



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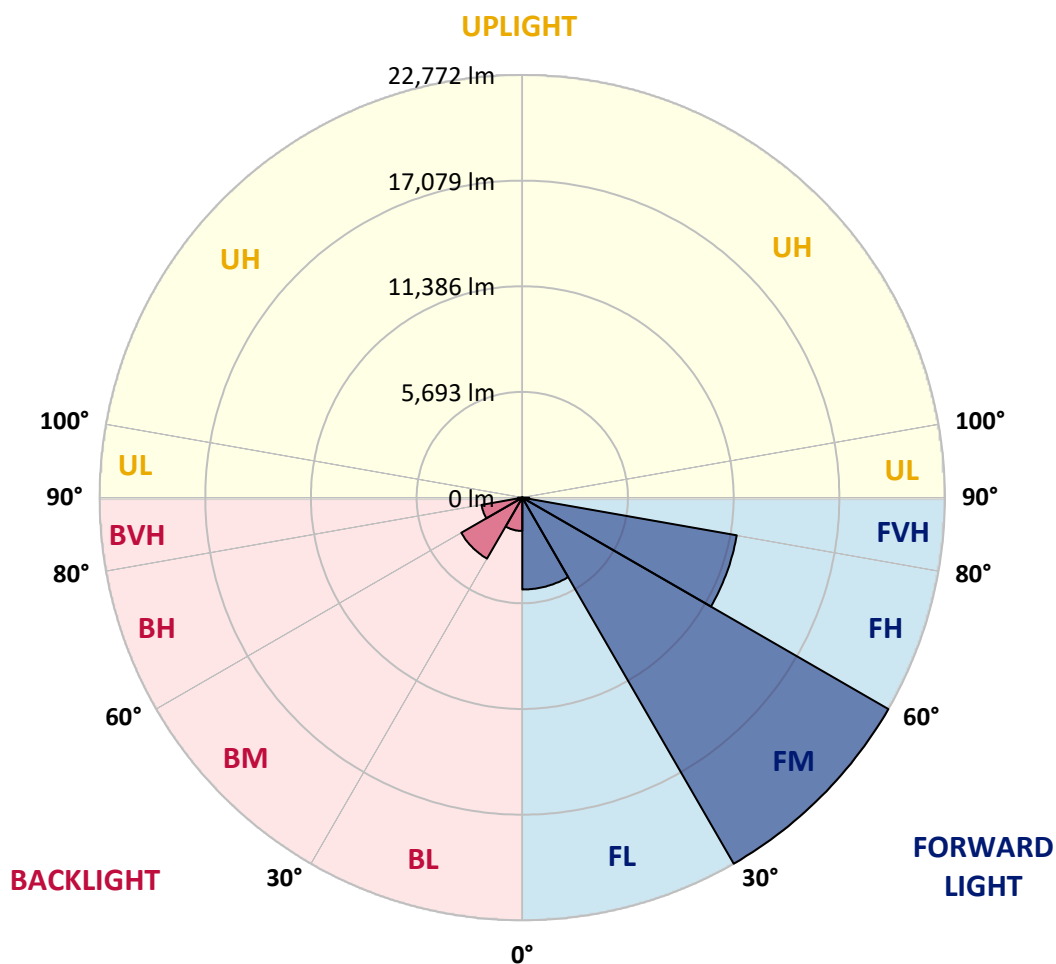
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4949.8	10.3			
FM	(30°-60°)	22771.8	47.6			
FH	(60°-80°)	11732.3	24.5			G4/12000
FVH	(80°-90°)	375.2	0.8			G3/500
BL	(0°-30°)	1796.9	3.8	B3/2500		
BM	(30°-60°)	3795.0	7.9	B3/5000		
BH	(60°-80°)	2231.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	225.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5
2.5°	5910.5	5871.6	5830.0	5715.8	5593.7	5456.1	5258.7	5069.1	4817.2	4809.4	4622.5
5°	7549.2	7523.2	7338.8	7232.3	6949.3	6572.7	6253.3	5757.3	5297.7	5243.1	4879.6
7.5°	9055.4	8954.1	8884.0	8691.8	8411.3	7928.3	7310.2	6640.2	5871.6	5798.9	5196.4
10°	10190.2	10179.8	10143.4	9977.2	9766.9	9286.5	8600.9	7640.0	6598.7	6455.9	5580.7
12.5°	11039.4	11047.2	11042.0	11039.4	10888.8	10481.0	9738.3	8725.5	7333.6	7232.3	6024.8
15°	11597.7	11675.6	11706.8	11836.6	11849.6	11576.9	10938.1	9774.7	8162.0	8011.4	6502.6
17.5°	11966.5	12005.4	12150.8	12371.6	12550.8	12501.4	11932.7	10745.9	9008.6	8756.7	6998.6
20°	12319.6	12387.2	12498.8	12800.1	13116.9	13262.3	12862.4	11740.5	9847.4	9686.4	7546.6
22.5°	13054.6	13150.6	13189.6	13342.8	13612.9	13870.0	13688.2	12693.6	10766.7	10548.6	8128.3
25°	14298.5	14399.7	14290.7	14254.3	14342.6	14469.9	14430.9	13592.1	11634.1	11322.4	8678.8
27.5°	15918.9	15931.9	15719.0	15516.4	15298.3	15233.4	15113.9	14389.4	12387.2	12127.5	9231.9
30°	17658.8	17596.5	17243.3	16877.2	16508.4	16144.9	15802.1	15158.0	13226.0	12927.3	9774.7
32.5°	19274.1	19240.4	18848.2	18279.5	17656.2	17313.5	16620.1	15934.5	14124.5	13836.2	10333.0
35°	20484.3	20533.6	20102.5	19481.9	18801.5	18497.6	17622.5	16749.9	15054.2	14739.9	10940.7
37.5°	21343.8	21317.9	20936.1	20398.6	19801.3	19536.4	18793.7	17640.7	16054.0	15752.7	11605.5
40°	21650.3	21634.7	21351.6	20959.5	20580.3	20486.9	20019.4	18601.5	17199.2	16846.0	12405.3
42.5°	21455.5	21489.3	21302.3	21195.8	21125.7	21193.2	21237.4	19861.0	18448.3	18123.7	13272.7
45°	20858.2	20840.0	20814.1	20988.1	21382.8	21826.9	22442.3	21050.4	19806.5	19546.8	14436.1
47.5°	19790.9	19920.7	19985.7	20466.1	21328.2	22380.0	23829.1	22644.9	21777.5	21551.6	16209.8
50°	18297.7	18401.6	18785.9	19640.3	20925.7	22587.7	25184.6	25252.1	25065.2	24641.9	18136.7
52.5°	15965.7	16126.7	16918.7	18484.7	20099.9	22502.0	26005.2	27488.1	27734.8	27418.0	20035.0
55°	13355.8	13581.7	14417.9	16472.1	18962.5	22034.6	26571.4	28783.9	29768.1	29474.7	21863.2
57.5°	10800.5	11039.4	11898.9	13888.2	16978.5	21001.0	26942.7	30227.8	32536.4	32154.7	24138.1
60°	8094.5	8343.8	9081.3	11130.3	14153.0	18980.7	26690.8	31479.5	35302.1	35138.5	26415.6
62.5°	5222.3	5497.6	6139.0	7834.8	10878.4	16220.2	25343.0	32170.3	37696.4	37499.1	28077.6
65°	3181.2	3212.4	3565.5	4864.0	7445.3	12558.6	22260.5	31253.6	38958.5	38898.8	28584.0
67.5°	2056.7	2106.1	2267.1	2913.7	4464.1	8723.0	17799.1	28228.2	38221.0	38200.2	27537.4
70°	1737.3	1752.9	1825.6	1965.8	2594.3	5289.9	12498.8	23405.8	35419.0	35419.0	25021.0
72.5°	1552.9	1573.7	1599.7	1643.8	1851.6	2996.8	7458.3	18219.8	30581.0	30783.5	21297.1
75°	1410.1	1404.9	1420.5	1428.3	1578.9	1958.1	3856.4	13475.3	23657.7	23252.5	15422.9
77.5°	1207.6	1215.3	1207.6	1241.3	1394.5	1490.6	1958.1	9042.4	14337.4	13812.9	7741.3
80°	992.0	1005.0	1018.0	1038.8	1192.0	1132.2	1176.4	4121.3	5302.8	5191.2	2391.7
82.5°	745.3	763.5	784.3	833.6	937.5	747.9	742.7	1760.7	1913.9	1752.9	880.3
85°	301.2	355.8	537.6	586.9	589.5	410.3	457.1	734.9	781.7	763.5	345.4
87.5°	70.1	83.1	174.0	262.3	241.5	153.2	168.8	238.9	272.7	251.9	116.9
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°	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5
2.5°	4536.8	4445.9	4290.1	4170.6	4084.9	4009.6	3962.9	3934.3	3923.9	3921.3	3923.9
5°	4690.0	4529.0	4282.3	4126.5	4040.8	3991.4	3962.9	3960.3	3962.9	3965.4	3957.7
7.5°	4900.3	4669.2	4347.2	4201.8	4136.8	4100.5	4087.5	4082.3	4084.9	4082.3	4082.3
10°	5180.8	4864.0	4474.4	4323.8	4269.3	4227.7	4207.0	4194.0	4183.6	4173.2	4168.0
12.5°	5489.8	5079.5	4612.1	4466.6	4388.7	4323.8	4277.1	4243.3	4219.9	4196.6	4191.4
15°	5835.2	5308.0	4765.3	4562.7	4451.1	4355.0	4274.5	4219.9	4178.4	4144.6	4142.0
17.5°	6165.0	5523.6	4869.2	4606.9	4443.3	4308.2	4201.8	4126.5	4074.5	4030.4	4025.2
20°	6518.2	5728.7	4915.9	4578.3	4365.4	4201.8	4061.5	3970.6	3910.9	3861.6	3853.8
22.5°	6874.0	5902.7	4910.7	4487.4	4230.3	4038.2	3890.1	3794.1	3723.9	3674.6	3656.4
25°	7214.2	6043.0	4845.8	4342.0	4043.4	3843.4	3692.8	3604.5	3542.2	3482.4	3482.4
27.5°	7520.6	6126.1	4723.7	4165.4	3851.2	3640.8	3521.4	3440.9	3383.7	3344.8	3321.4
30°	7821.8	6165.0	4557.5	3942.1	3648.6	3469.4	3373.4	3326.6	3274.7	3230.5	3225.3
32.5°	8091.9	6157.2	4349.8	3723.9	3456.5	3329.2	3290.3	3253.9	3199.4	3137.0	3121.5
35°	8354.2	6105.3	4103.1	3485.0	3295.5	3246.1	3256.5	3204.6	3105.9	3028.0	3015.0
37.5°	8639.8	6011.8	3833.0	3290.3	3160.4	3207.2	3233.1	3118.9	2957.9	2835.8	2807.2
40°	8969.7	5905.3	3552.5	3095.5	3053.9	3170.8	3170.8	2960.5	2739.7	2664.4	2643.6
42.5°	9356.6	5817.0	3318.8	2931.9	2965.6	3082.5	3069.5	2750.1	2659.2	2620.3	2609.9
45°	9969.5	5785.9	3077.3	2789.1	2892.9	2978.6	2872.2	2677.4	2625.5	2594.3	2583.9
47.5°	10938.1	5822.2	2864.4	2682.6	2809.8	2874.8	2651.4	2628.1	2591.7	2547.5	2542.4
50°	11836.6	5788.5	2713.7	2622.9	2737.1	2750.1	2560.5	2568.3	2547.5	2498.2	2487.8
52.5°	12571.5	5682.0	2617.7	2591.7	2674.8	2532.0	2474.8	2503.4	2495.6	2433.3	2422.9
55°	13379.2	5617.1	2570.9	2591.7	2633.2	2342.4	2394.3	2435.9	2425.5	2381.3	2378.8
57.5°	14358.2	5630.1	2537.2	2599.5	2591.7	2246.3	2313.8	2363.2	2360.6	2347.6	2347.6
60°	15360.6	5635.2	2485.2	2596.9	2542.4	2171.0	2230.7	2300.8	2306.0	2313.8	2313.8
62.5°	15693.0	5409.3	2383.9	2550.1	2433.3	2098.3	2152.8	2248.9	2243.7	2264.5	2267.1
65°	15072.3	4783.5	2233.3	2443.7	2293.1	2046.3	2093.1	2181.4	2152.8	2207.4	2217.7
67.5°	13719.4	3957.7	1999.6	2251.5	2137.2	1991.8	2054.1	2087.9	2036.0	2142.4	2145.0
70°	11857.4	3090.3	1703.6	1978.8	1960.7	1934.7	2023.0	1971.0	1898.3	2028.2	2002.2
72.5°	9914.9	2360.6	1360.8	1617.9	1724.3	1849.0	1968.4	1820.4	1719.1	1758.1	1711.3
75°	7447.9	1745.1	1093.3	1267.3	1436.1	1726.9	1919.1	1638.6	1482.8	1446.5	1436.1
77.5°	3796.7	1140.0	818.0	947.9	1077.7	1560.7	1851.6	1425.7	1228.3	1171.2	1145.2
80°	1355.6	709.0	576.5	654.4	727.1	1342.6	1617.9	1179.0	953.1	942.7	953.1
82.5°	628.4	457.1	386.9	428.5	431.1	895.9	1233.5	880.3	724.5	1101.1	929.7
85°	270.1	228.5	218.1	212.9	197.4	399.9	693.4	472.6	737.5	329.8	303.8
87.5°	80.5	90.9	80.5	59.7	44.1	44.1	70.1	26.0	18.2	13.0	13.0
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)