

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: P522869

Luminaire Tested: **GALN-SA8A-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36955 lumens
Efficiency: N/A
Efficacy: 151.5 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

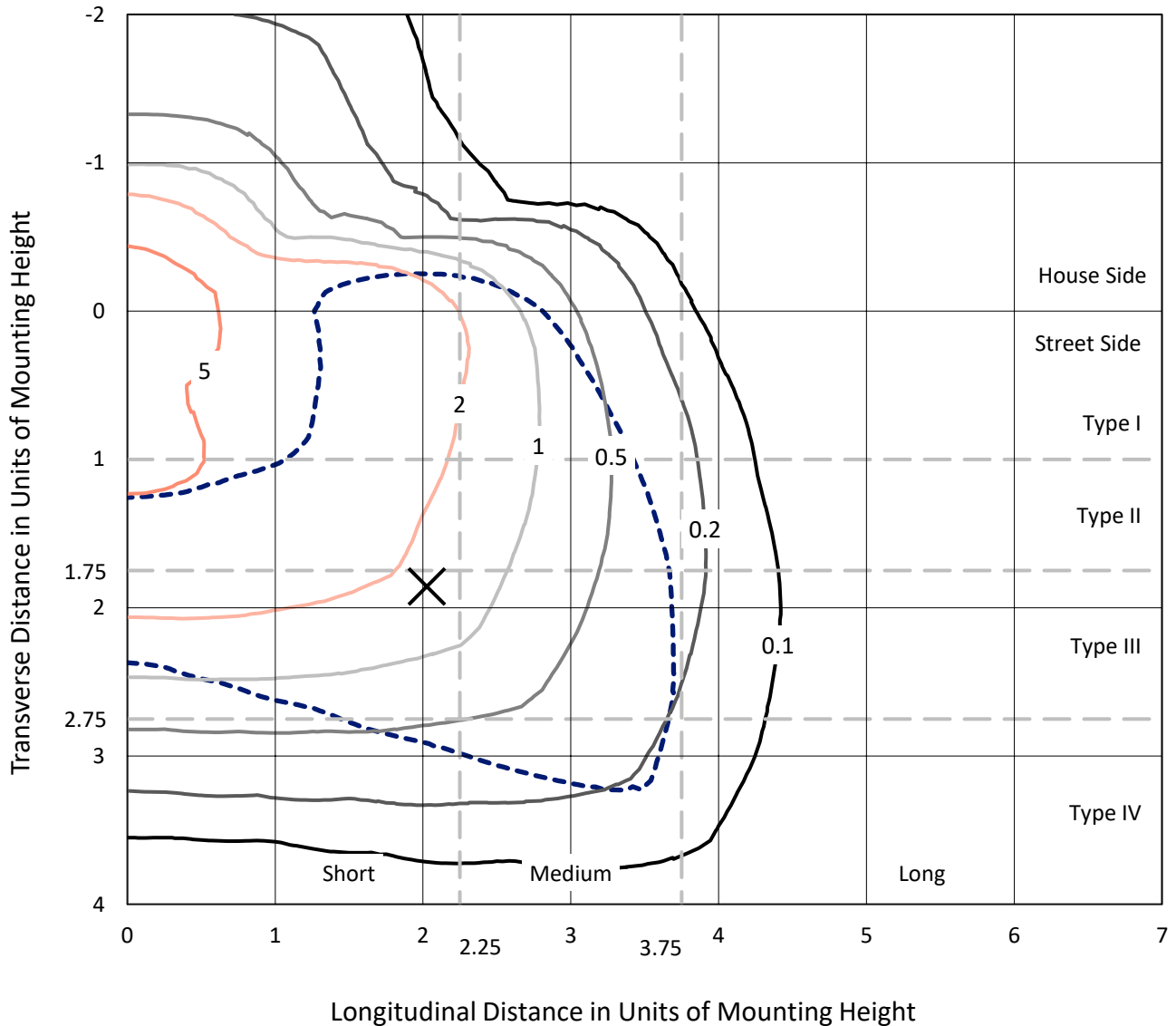
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

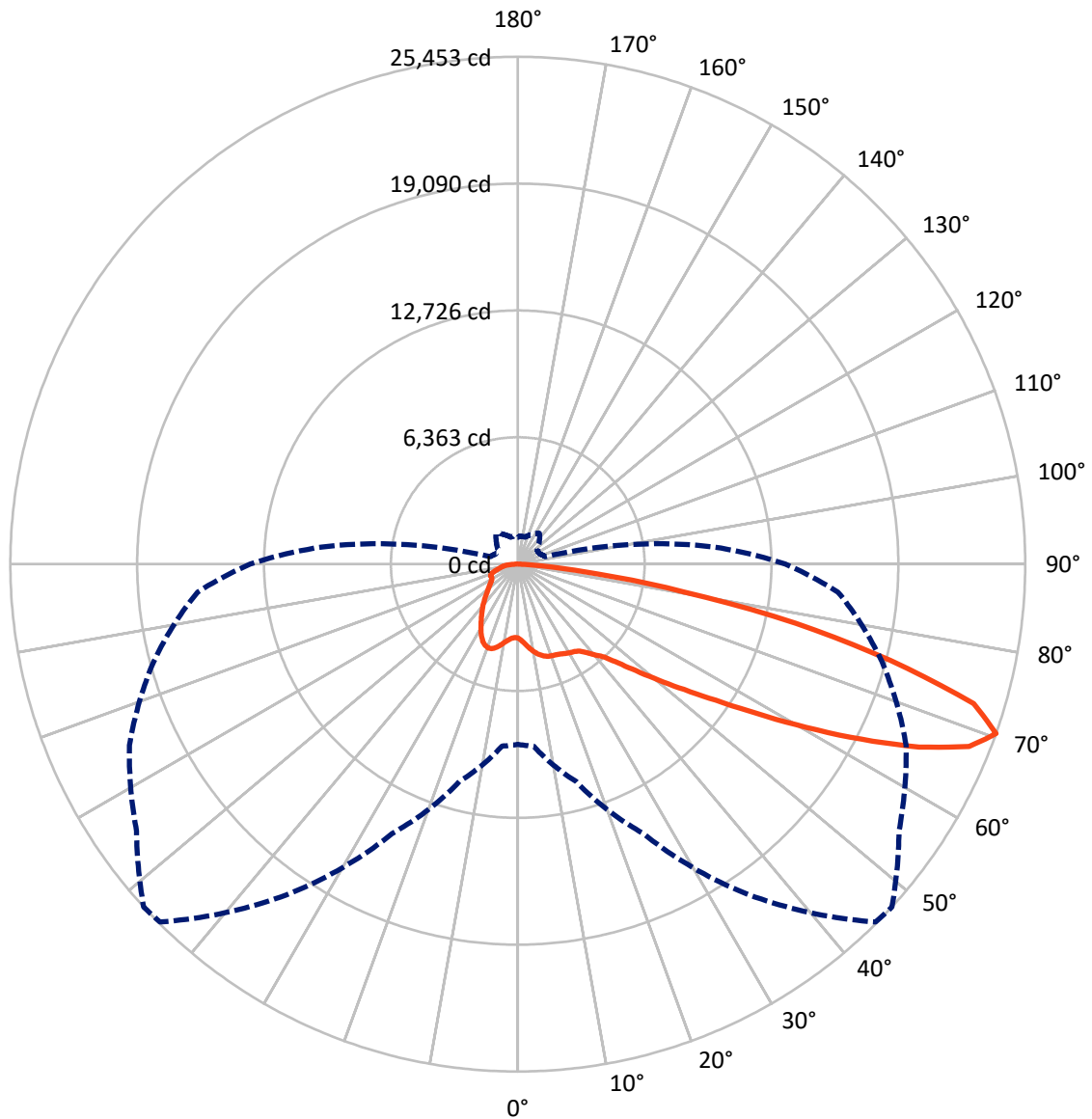
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8367.3	0.0	8367.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28587.7	0.0	28587.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	36955.0	0.0	36955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	1.0
10°-20°	1278.4	3.5
20°-30°	2126.0	5.8
30°-40°	3013.3	8.2
40°-50°	4448.2	12.0
50°-60°	7704.5	20.8
60°-70°	10882.9	29.4
70°-80°	6256.1	16.9
80°-90°	863.2	2.3
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°	36955.0	100.0
0°-180°	36955.0	100.0

Coefficient of Utilization



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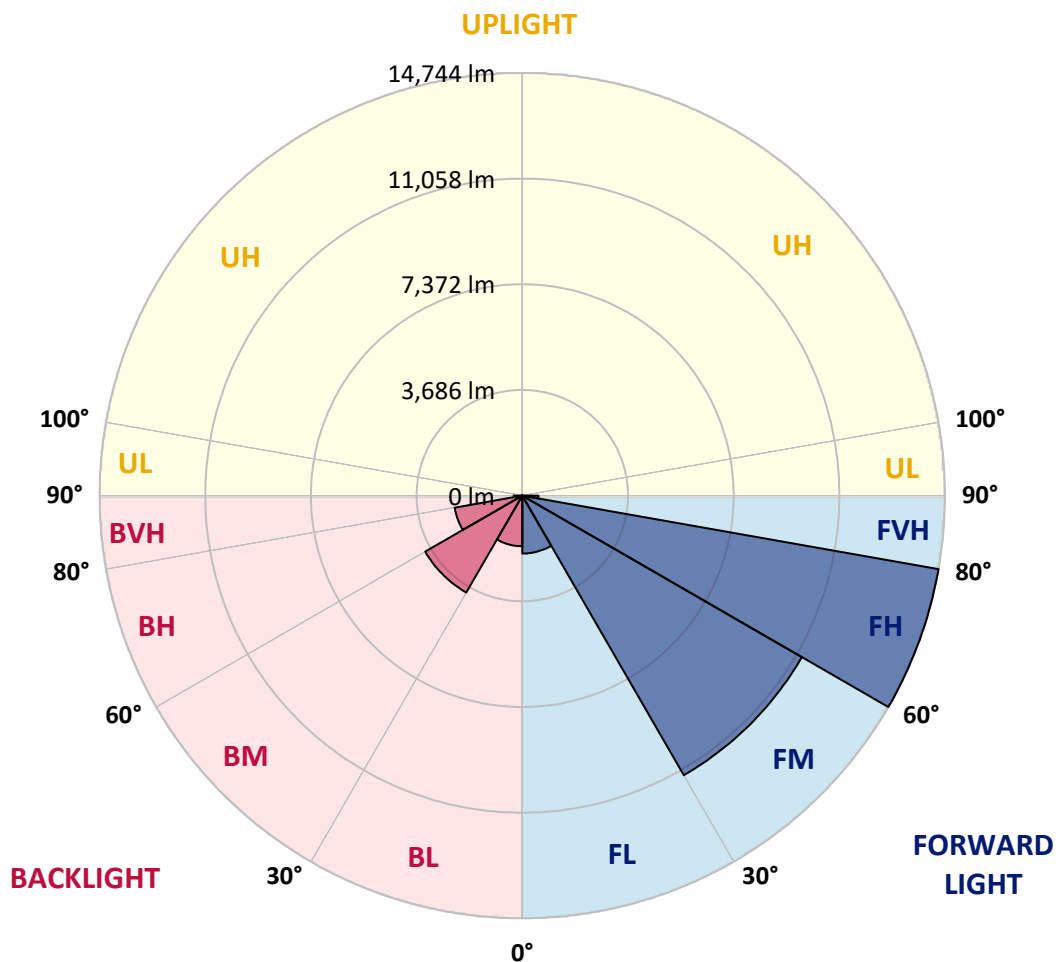
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2020.8	5.5			
FM	(30°-60°)	11259.5	30.5			
FH	(60°-80°)	14743.5	39.9			G5
FVH	(80°-90°)	563.9	1.5			G4/750
BL	(0°-30°)	1766.0	4.8	B3/2500		
BM	(30°-60°)	3906.6	10.6	B3/5000		
BH	(60°-80°)	2395.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	299.3	0.8			G3/500
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°	35°	45°	47.5°	55°	65°	75°	85°
0°	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8
2.5°	3949.1	3935.3	3933.3	3903.6	3887.8	3858.2	3846.3	3818.6	3785.0	3751.4	3719.7
5°	4259.6	4259.6	4245.7	4204.2	4139.0	4071.7	4042.1	3988.7	3893.7	3816.6	3751.4
7.5°	4578.0	4581.9	4554.2	4492.9	4400.0	4291.2	4263.5	4184.4	4050.0	3937.3	3840.4
10°	4852.8	4852.8	4815.3	4732.2	4615.5	4496.9	4469.2	4380.2	4229.9	4089.5	3963.0
12.5°	5062.5	5062.5	5013.0	4904.3	4777.7	4670.9	4639.3	4554.2	4413.8	4257.6	4097.4
15°	5198.9	5189.0	5133.7	5011.0	4888.4	4795.5	4773.7	4702.6	4574.0	4415.8	4235.9
17.5°	5204.8	5200.9	5147.5	5044.7	4937.9	4874.6	4860.8	4813.3	4712.4	4562.2	4372.3
20°	5090.1	5098.1	5062.5	4989.3	4937.9	4910.2	4904.3	4888.4	4817.3	4676.8	4487.0
22.5°	4967.5	4981.4	4947.8	4908.2	4904.3	4931.9	4935.9	4939.9	4894.4	4757.9	4583.9
25°	4937.9	4947.8	4914.2	4878.6	4900.3	4973.5	4989.3	5005.1	4969.5	4854.8	4698.6
27.5°	5088.2	5080.3	5015.0	4937.9	4951.7	5050.6	5072.4	5090.1	5072.4	4973.5	4841.0
30°	5513.3	5487.6	5357.1	5131.7	5060.5	5129.7	5151.5	5200.9	5200.9	5127.7	4995.2
32.5°	6225.2	6175.8	5936.5	5493.6	5246.4	5204.8	5226.6	5307.7	5349.2	5291.9	5147.5
35°	7089.4	7038.0	6695.9	6100.7	5586.5	5355.1	5349.2	5440.2	5550.9	5422.4	5234.5
37.5°	7957.6	7904.2	7492.8	6824.4	6082.9	5671.5	5635.9	5667.6	5715.0	5479.7	5355.1
40°	8825.7	8762.4	8402.5	7633.2	6690.0	6090.8	5997.8	5855.5	5835.7	5667.6	5588.5
42.5°	9685.9	9628.6	9446.6	8540.9	7417.7	6500.1	6357.7	6112.5	6187.7	6086.8	6017.6
45°	10554.1	10558.0	10364.2	9559.4	8295.7	7255.5	7063.7	6680.1	6858.1	6820.5	6860.0
47.5°	11323.3	11313.4	11244.2	10548.1	9385.3	8228.5	7981.3	7536.3	7840.9	7979.3	8281.9
50°	12068.8	12062.9	12066.9	11669.4	10651.0	9385.3	9112.4	8645.7	9331.9	9812.5	10354.3
52.5°	13136.7	13170.3	12931.0	12826.2	12189.5	10751.8	10451.2	9968.7	11093.9	11851.3	12909.3
55°	14208.5	14180.8	13993.0	14101.7	13799.2	12369.4	12055.0	11671.4	13055.6	13884.2	15474.1
57.5°	14839.3	14849.2	15041.1	15573.0	15786.6	14386.5	14101.7	13805.1	15260.6	15847.9	17756.2
60°	15406.9	15452.4	16004.1	17008.7	17588.1	16864.3	16611.2	16322.5	17283.6	17516.9	19737.7
62.5°	15584.9	15725.3	16688.3	18191.3	19344.2	19660.6	19346.1	18709.4	19209.7	19118.7	21080.4
65°	14697.0	14888.8	16615.2	18634.2	20912.3	22314.4	22114.7	20932.1	20851.0	20303.3	21299.9
67.5°	12359.5	12551.4	14768.2	17704.8	21561.0	24612.3	24412.5	22553.7	21847.7	20414.0	19638.8
70°	9043.2	9163.9	11283.8	14906.6	20257.8	25383.5	25452.7	23344.7	21491.7	18909.1	16124.7
72.5°	5210.8	5477.7	6962.9	10486.8	16549.9	23433.7	23914.2	21699.4	19241.3	15774.7	11273.9
75°	2240.5	2246.5	3219.4	5784.3	11208.6	18835.9	19300.6	17987.6	15110.3	10908.0	6019.6
77.5°	1065.9	1085.7	1415.9	2582.6	6169.9	13014.1	14267.8	12707.6	9664.2	5240.4	2274.2
80°	692.1	706.0	866.2	1281.4	3025.6	7546.2	8420.3	7330.7	4263.5	1872.7	980.9
82.5°	419.2	423.2	579.4	783.1	1665.1	3417.2	4028.2	3181.8	1819.3	1121.3	577.4
85°	255.1	257.1	352.0	484.5	1010.5	1180.6	1212.2	1202.3	1067.9	733.7	308.5
87.5°	122.6	126.6	181.9	229.4	397.5	365.8	346.1	401.4	504.3	395.5	132.5
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°	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8
2.5°	3705.9	3699.9	3686.1	3680.2	3676.2	3678.2	3676.2	3676.2	3678.2	3678.2	3678.2
5°	3723.7	3713.8	3692.0	3692.0	3703.9	3731.6	3757.3	3777.1	3798.8	3796.8	3796.8
7.5°	3800.8	3783.0	3757.3	3765.2	3794.9	3838.4	3883.9	3927.4	3970.9	3974.8	3972.8
10°	3913.5	3895.7	3868.0	3877.9	3925.4	3990.6	4048.0	4111.3	4158.7	4172.6	4168.6
12.5°	4042.1	4006.5	3982.7	4010.4	4085.6	4172.6	4227.9	4275.4	4309.0	4328.8	4320.9
15°	4172.6	4139.0	4111.3	4168.6	4259.6	4340.7	4368.4	4376.3	4382.2	4402.0	4398.0
17.5°	4299.1	4253.7	4243.8	4318.9	4405.9	4441.5	4425.7	4392.1	4366.4	4382.2	4380.2
20°	4411.9	4376.3	4372.3	4447.5	4481.1	4447.5	4380.2	4320.9	4275.4	4279.4	4277.4
22.5°	4518.6	4491.0	4494.9	4526.6	4473.2	4358.5	4247.7	4166.6	4117.2	4127.1	4133.0
25°	4637.3	4609.6	4619.5	4568.1	4392.1	4192.4	4032.2	3963.0	3943.2	3963.0	3976.8
27.5°	4791.5	4773.7	4767.8	4570.1	4247.7	3947.1	3765.2	3739.5	3757.3	3800.8	3822.6
30°	4957.7	4957.7	4926.0	4536.4	4050.0	3652.5	3494.3	3498.2	3559.5	3620.8	3642.6
32.5°	5117.8	5151.5	5052.6	4445.5	3794.9	3365.7	3245.1	3249.1	3302.5	3377.6	3397.4
35°	5250.3	5347.2	5161.3	4279.4	3494.3	3124.5	3033.5	2980.1	2982.1	3039.5	3055.3
37.5°	5432.3	5612.2	5224.6	4032.2	3173.9	2918.8	2816.0	2723.1	2661.7	2638.0	2638.0
40°	5748.7	6013.7	5240.4	3666.3	2871.4	2723.1	2576.7	2466.0	2347.3	2240.5	2220.8
42.5°	6284.6	6618.8	5208.8	3245.1	2598.5	2507.5	2365.1	2228.7	2064.5	1914.2	1902.4
45°	7233.8	7405.8	5123.8	2808.1	2355.2	2299.9	2161.4	2013.1	1839.1	1704.6	1694.7
47.5°	8754.5	8511.3	5011.0	2420.5	2133.7	2117.9	2011.1	1839.1	1665.1	1572.1	1562.2
50°	10975.3	10251.5	4995.2	2139.7	1955.8	1963.7	1876.7	1718.5	1566.2	1489.1	1477.2
52.5°	13648.9	12353.6	5100.0	1941.9	1799.5	1829.2	1785.7	1639.4	1504.9	1439.6	1427.8
55°	16243.4	14244.1	5163.3	1787.7	1653.2	1708.6	1714.5	1591.9	1469.3	1404.0	1396.1
57.5°	18349.5	15667.9	4882.5	1647.3	1526.6	1611.7	1655.2	1564.2	1451.5	1402.1	1394.2
60°	19814.8	16340.3	4083.6	1522.7	1433.7	1534.6	1633.4	1566.2	1495.0	1500.9	1504.9
62.5°	20281.5	16041.7	3063.2	1429.8	1370.4	1508.9	1669.0	1647.3	1574.1	1619.6	1627.5
65°	19508.3	14807.7	2220.8	1356.6	1315.1	1526.6	1775.8	1706.6	1546.4	1580.0	1580.0
67.5°	16919.7	12757.0	1728.4	1289.3	1251.8	1560.3	1882.6	1700.7	1481.2	1520.7	1485.1
70°	13421.5	9867.9	1439.6	1214.2	1184.5	1510.8	1892.5	1639.4	1404.0	1412.0	1344.7
72.5°	8906.8	6488.3	1237.9	1143.0	1081.7	1358.6	1811.4	1560.3	1328.9	1283.4	1216.2
75°	4364.4	3235.2	1079.7	1054.0	947.2	1182.6	1700.7	1485.1	1247.8	1176.6	1139.1
77.5°	1690.8	1376.4	921.5	941.3	824.6	1042.2	1554.3	1378.3	1141.0	1044.1	1014.5
80°	820.7	781.1	755.4	785.1	678.3	887.9	1419.9	1285.4	1042.2	935.4	891.9
82.5°	510.2	482.5	579.4	611.1	522.1	810.8	1346.7	1206.3	917.6	775.2	739.6
85°	259.1	276.9	387.6	417.3	373.8	644.7	1109.4	905.7	662.5	549.8	553.7
87.5°	98.9	132.5	203.7	219.5	199.7	340.1	611.1	528.0	425.2	288.7	267.0
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)