

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: P522840

Luminaire Tested: **GALN-SA7B-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522840
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-SA7B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36121 lumens
Efficiency: N/A
Efficacy: 126.3 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

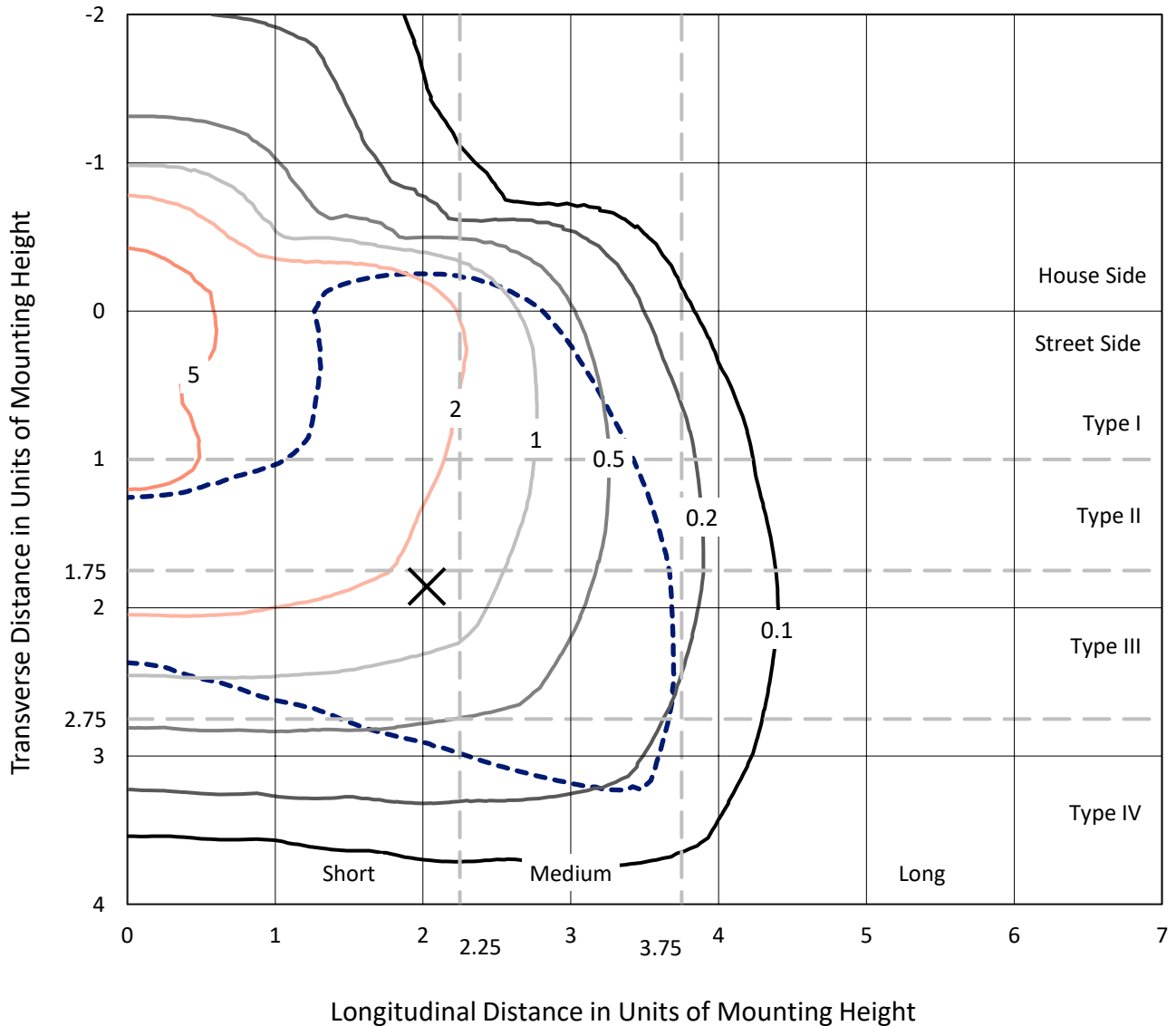
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

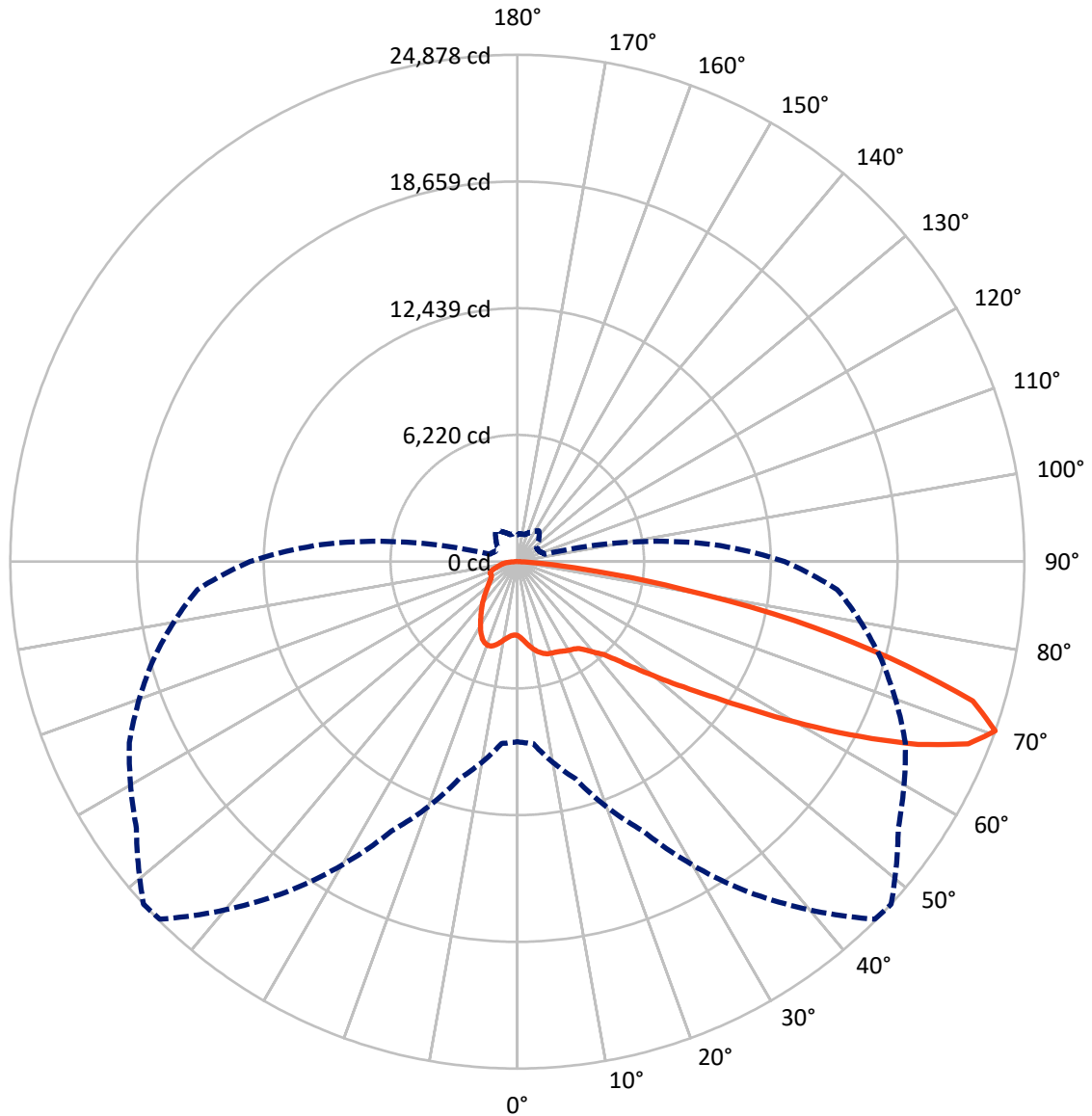
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	8178.5	0.0	8178.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27942.5	0.0	27942.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	36121.0	0.0	36121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	1.0
10°-20°	1249.6	3.5
20°-30°	2078.0	5.8
30°-40°	2945.3	8.2
40°-50°	4347.8	12.0
50°-60°	7530.7	20.8
60°-70°	10637.3	29.4
70°-80°	6114.9	16.9
80°-90°	843.7	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°	36121.0	100.0
0°-180°	36121.0	100.0

Coefficient of Utilization



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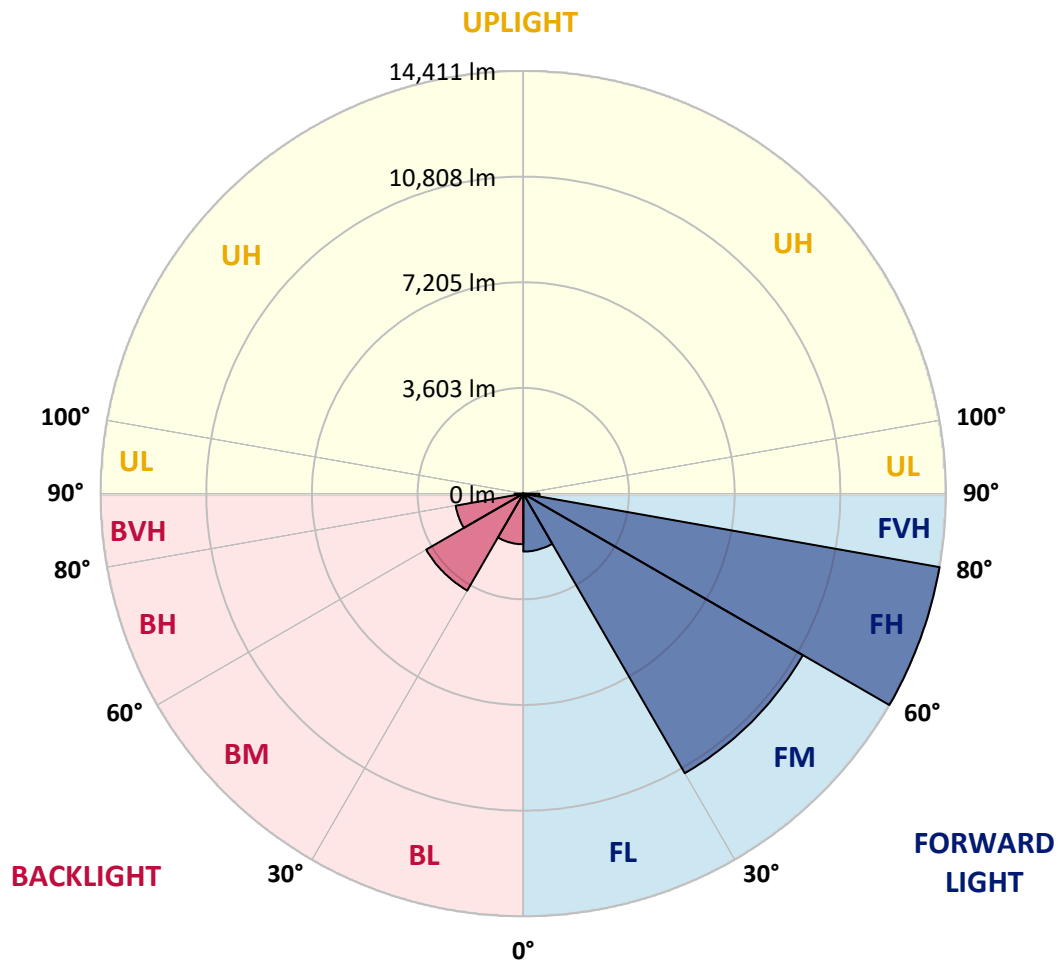
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1975.2	5.5			
FM	(30°-60°)	11005.4	30.5			
FH	(60°-80°)	14410.8	39.9			G5
FVH	(80°-90°)	551.1	1.5			G4/750
BL	(0°-30°)	1726.1	4.8	B3/2500		
BM	(30°-60°)	3818.4	10.6	B3/5000		
BH	(60°-80°)	2341.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	292.6	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°	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1
2.5°	3860.0	3846.5	3844.5	3815.5	3800.1	3771.1	3759.5	3732.4	3699.6	3666.7	3635.8
5°	4163.5	4163.5	4149.9	4109.3	4045.6	3979.8	3950.8	3898.7	3805.9	3730.5	3666.7
7.5°	4474.7	4478.5	4451.5	4391.5	4300.7	4194.4	4167.3	4090.0	3958.6	3848.4	3753.7
10°	4743.3	4743.3	4706.6	4625.4	4511.4	4395.4	4368.3	4281.4	4134.5	3997.2	3873.5
12.5°	4948.2	4948.2	4899.9	4793.6	4669.9	4565.5	4534.6	4451.5	4314.2	4161.5	4005.0
15°	5081.6	5071.9	5017.8	4898.0	4778.1	4687.3	4666.0	4596.4	4470.8	4316.2	4140.3
17.5°	5087.4	5083.5	5031.3	4930.8	4826.4	4764.6	4751.1	4704.7	4606.1	4459.2	4273.6
20°	4975.3	4983.0	4948.2	4876.7	4826.4	4799.4	4793.6	4778.1	4708.5	4571.3	4385.7
22.5°	4855.4	4869.0	4836.1	4797.4	4793.6	4820.6	4824.5	4828.4	4783.9	4650.5	4480.5
25°	4826.4	4836.1	4803.2	4768.5	4789.7	4861.2	4876.7	4892.2	4857.4	4745.3	4592.6
27.5°	4973.3	4965.6	4901.8	4826.4	4840.0	4936.6	4957.9	4975.3	4957.9	4861.2	4731.7
30°	5388.9	5363.8	5236.2	5015.9	4946.3	5013.9	5035.2	5083.5	5083.5	5012.0	4882.5
32.5°	6084.8	6036.4	5802.6	5369.6	5128.0	5087.4	5108.6	5187.9	5228.5	5172.4	5031.3
35°	6929.4	6879.2	6544.8	5963.0	5460.4	5234.3	5228.5	5317.4	5425.6	5300.0	5116.4
37.5°	7778.0	7725.8	7323.7	6670.4	5945.6	5543.5	5508.8	5539.7	5586.1	5356.1	5234.3
40°	8626.5	8564.7	8212.9	7461.0	6539.0	5953.3	5862.5	5723.3	5704.0	5539.7	5462.4
42.5°	9467.3	9411.3	9233.4	8348.2	7250.3	6353.4	6214.3	5974.6	6048.0	5949.5	5881.8
45°	10315.9	10319.7	10130.3	9343.6	8108.5	7091.8	6904.3	6529.3	6703.3	6666.6	6705.2
47.5°	11067.8	11058.1	10990.4	10310.1	9173.5	8042.8	7801.2	7366.3	7663.9	7799.2	8095.0
50°	11796.5	11790.7	11794.5	11406.0	10410.6	9173.5	8906.8	8450.6	9121.3	9591.0	10120.6
52.5°	12840.2	12873.1	12639.2	12536.8	11914.4	10509.2	10215.4	9743.7	10843.5	11583.8	12617.9
55°	13887.9	13860.8	13677.2	13783.5	13487.8	12090.3	11782.9	11408.0	12761.0	13570.9	15124.9
57.5°	14504.5	14514.1	14701.6	15221.6	15430.3	14061.8	13783.5	13493.6	14916.2	15490.2	17355.5
60°	15059.2	15103.7	15642.9	16624.8	17191.2	16483.7	16236.3	15954.1	16893.5	17121.6	19292.2
62.5°	15233.2	15370.4	16311.7	17780.7	18907.6	19216.9	18909.5	18287.1	18776.2	18687.2	20604.7
65°	14365.3	14552.8	16240.2	18213.7	20440.4	21810.8	21615.6	20459.7	20380.5	19845.0	20819.2
67.5°	12080.6	12268.1	14434.9	17305.2	21074.4	24056.8	23861.6	22044.7	21354.6	19953.3	19195.6
70°	8839.1	8957.0	11029.1	14570.2	19800.6	24810.7	24878.3	22817.8	21006.7	18482.4	15760.8
72.5°	5093.2	5354.1	6805.7	10250.1	16176.4	22904.8	23374.5	21209.7	18807.1	15418.7	11019.4
75°	2190.0	2195.8	3146.8	5653.7	10955.7	18410.8	18865.1	17581.6	14769.3	10661.9	5883.7
77.5°	1041.8	1061.2	1384.0	2524.4	6030.6	12720.4	13945.8	12420.8	9446.1	5122.2	2222.8
80°	676.5	690.0	846.6	1252.5	2957.3	7375.9	8230.3	7165.2	4167.3	1830.5	958.7
82.5°	409.8	413.6	566.3	765.4	1627.5	3340.0	3937.3	3110.0	1778.3	1096.0	564.4
85°	249.3	251.3	344.1	473.6	987.7	1153.9	1184.9	1175.2	1043.8	717.1	301.5
87.5°	119.8	123.7	177.8	224.2	388.5	357.6	338.3	392.4	492.9	386.6	129.5
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°	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1	3626.1
2.5°	3622.2	3616.4	3602.9	3597.1	3593.3	3595.2	3593.3	3593.3	3595.2	3595.2	3595.2
5°	3639.6	3630.0	3608.7	3608.7	3620.3	3647.4	3672.5	3691.8	3713.1	3711.2	3711.2
7.5°	3715.0	3697.6	3672.5	3680.2	3709.2	3751.8	3796.2	3838.7	3881.3	3885.1	3883.2
10°	3825.2	3807.8	3780.7	3790.4	3836.8	3900.6	3956.6	4018.5	4064.9	4078.4	4074.5
12.5°	3950.8	3916.0	3892.9	3919.9	3993.4	4078.4	4132.5	4178.9	4211.8	4231.1	4223.4
15°	4078.4	4045.6	4018.5	4074.5	4163.5	4242.7	4269.8	4277.5	4283.3	4302.6	4298.8
17.5°	4202.1	4157.7	4148.0	4221.4	4306.5	4341.3	4325.8	4293.0	4267.8	4283.3	4281.4
20°	4312.3	4277.5	4273.6	4347.1	4379.9	4347.1	4281.4	4223.4	4178.9	4182.8	4180.9
22.5°	4416.7	4389.6	4393.5	4424.4	4372.2	4260.1	4151.9	4072.6	4024.3	4034.0	4039.8
25°	4532.6	4505.6	4515.2	4465.0	4293.0	4097.7	3941.2	3873.5	3854.2	3873.5	3887.1
27.5°	4683.4	4666.0	4660.2	4466.9	4151.9	3858.1	3680.2	3655.1	3672.5	3715.0	3736.3
30°	4845.8	4845.8	4814.8	4434.1	3958.6	3570.1	3415.4	3419.3	3479.2	3539.1	3560.4
32.5°	5002.3	5035.2	4938.6	4345.2	3709.2	3289.8	3171.9	3175.7	3227.9	3301.4	3320.7
35°	5131.8	5226.6	5044.9	4182.8	3415.4	3054.0	2965.1	2912.9	2914.8	2970.9	2986.3
37.5°	5309.7	5485.6	5106.7	3941.2	3102.3	2853.0	2752.4	2661.6	2601.7	2578.5	2578.5
40°	5618.9	5877.9	5122.2	3583.6	2806.6	2661.6	2518.6	2410.3	2294.3	2190.0	2170.6
42.5°	6142.7	6469.4	5091.2	3171.9	2539.8	2450.9	2311.7	2178.4	2017.9	1871.0	1859.4
45°	7070.5	7238.7	5008.1	2744.7	2302.1	2248.0	2112.7	1967.7	1797.6	1666.2	1656.5
47.5°	8556.9	8319.2	4898.0	2365.9	2085.6	2070.1	1965.8	1797.6	1627.5	1536.7	1527.0
50°	10727.6	10020.1	4882.5	2091.4	1911.6	1919.4	1834.3	1679.7	1530.9	1455.5	1443.9
52.5°	13340.9	12074.8	4984.9	1898.1	1758.9	1787.9	1745.4	1602.4	1470.9	1407.1	1395.6
55°	15876.8	13922.7	5046.8	1747.3	1615.9	1670.0	1675.8	1556.0	1436.1	1372.4	1364.6
57.5°	17935.3	15314.3	4772.3	1610.1	1492.2	1575.3	1617.8	1528.9	1418.7	1370.4	1362.7
60°	19367.6	15971.5	3991.4	1488.3	1401.3	1499.9	1596.6	1530.9	1461.3	1467.1	1470.9
62.5°	19823.8	15679.7	2994.1	1397.5	1339.5	1474.8	1631.4	1610.1	1538.6	1583.0	1590.8
65°	19068.0	14473.5	2170.6	1326.0	1285.4	1492.2	1735.7	1668.1	1511.5	1544.4	1544.4
67.5°	16537.9	12469.1	1689.4	1260.2	1223.5	1525.1	1840.1	1662.3	1447.7	1486.4	1451.6
70°	13118.6	9645.2	1407.1	1186.8	1157.8	1476.7	1849.8	1602.4	1372.4	1380.1	1314.4
72.5°	8705.8	6341.8	1210.0	1117.2	1057.3	1327.9	1770.5	1525.1	1298.9	1254.4	1188.7
75°	4265.9	3162.2	1055.4	1030.2	925.9	1155.9	1662.3	1451.6	1219.7	1150.1	1113.3
77.5°	1652.6	1345.3	900.7	920.1	806.0	1018.6	1519.3	1347.2	1115.3	1020.6	991.6
80°	802.2	763.5	738.4	767.4	663.0	867.9	1387.8	1256.4	1018.6	914.3	871.7
82.5°	498.7	471.6	566.3	597.3	510.3	792.5	1316.3	1179.1	896.9	757.7	722.9
85°	253.2	270.6	378.8	407.8	365.3	630.1	1084.4	885.3	647.5	537.3	541.2
87.5°	96.6	129.5	199.1	214.6	195.2	332.5	597.3	516.1	415.6	282.2	260.9
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)