

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: P455697

Luminaire Tested: **GALN-SA6D-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455697
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-SA6D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 33648 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

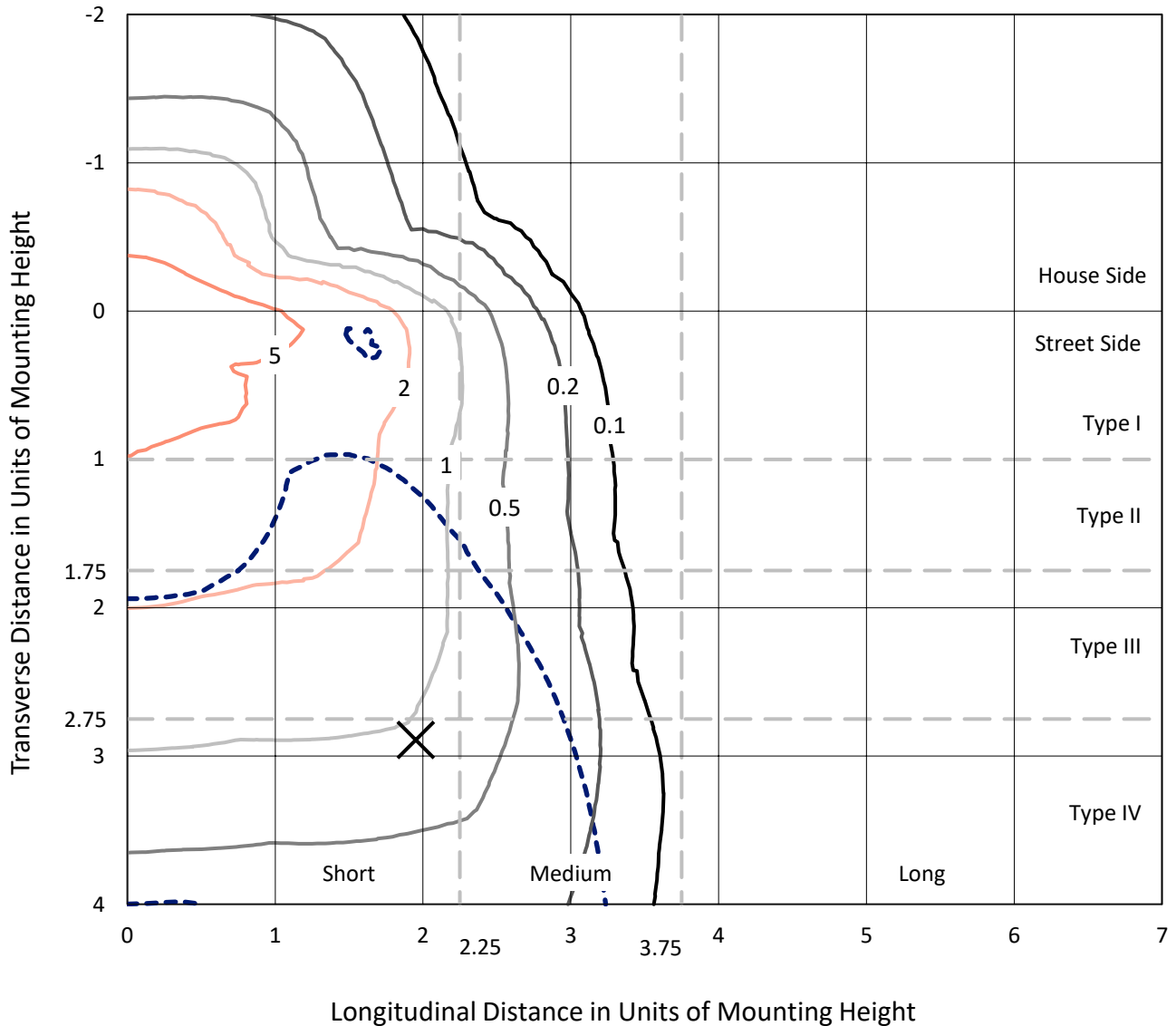
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

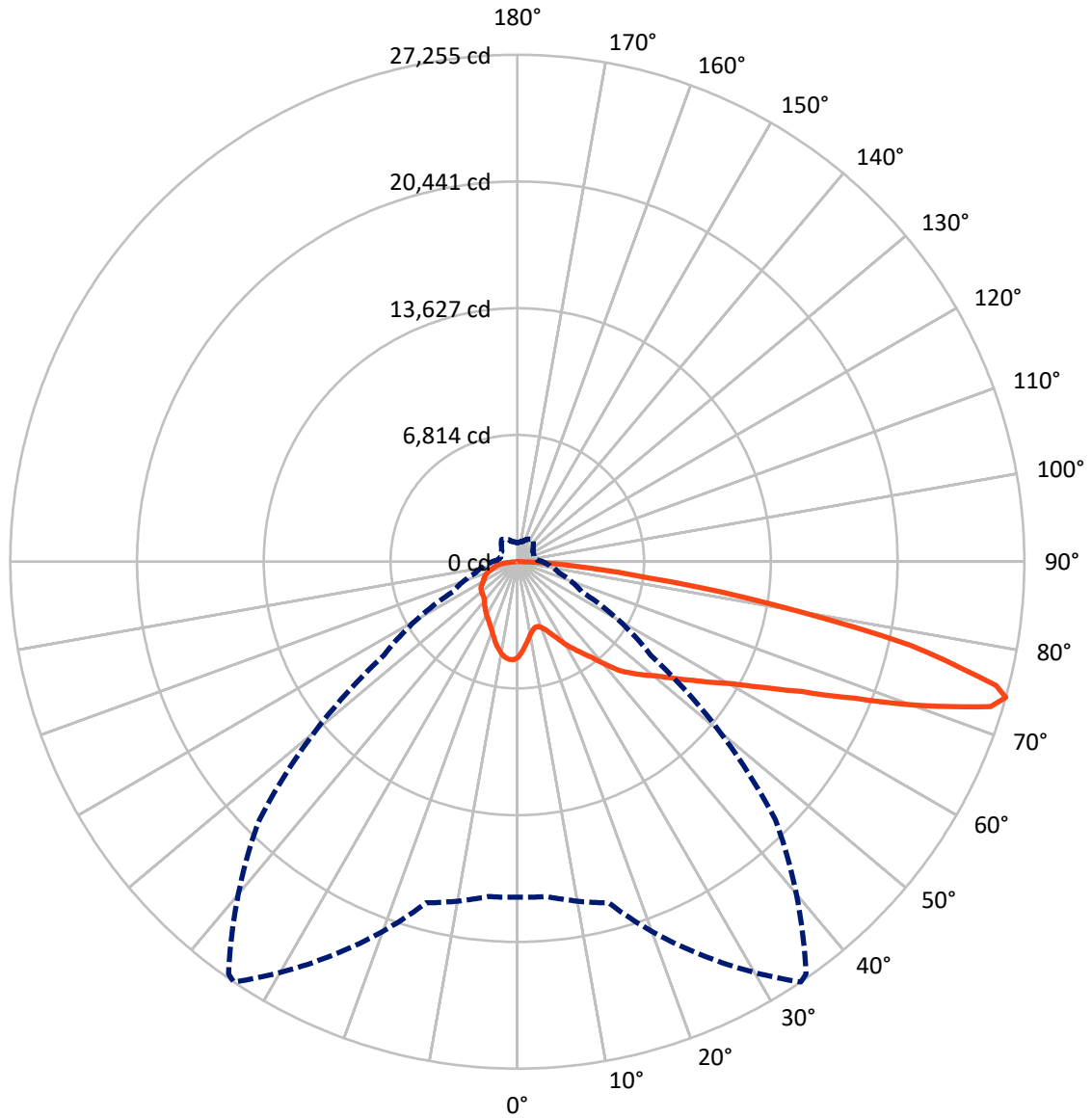
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	7160.5	0.0	7160.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	26487.5	0.0	26487.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	33648.0	0.0	33648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.2	1.4
10°-20°	1279.0	3.8
20°-30°	2108.7	6.3
30°-40°	3158.7	9.4
40°-50°	4591.8	13.6
50°-60°	6413.7	19.1
60°-70°	8029.6	23.9
70°-80°	6639.8	19.7
80°-90°	959.4	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°	33648.0	100.0
0°-180°	33648.0	100.0

Coefficient of Utilization



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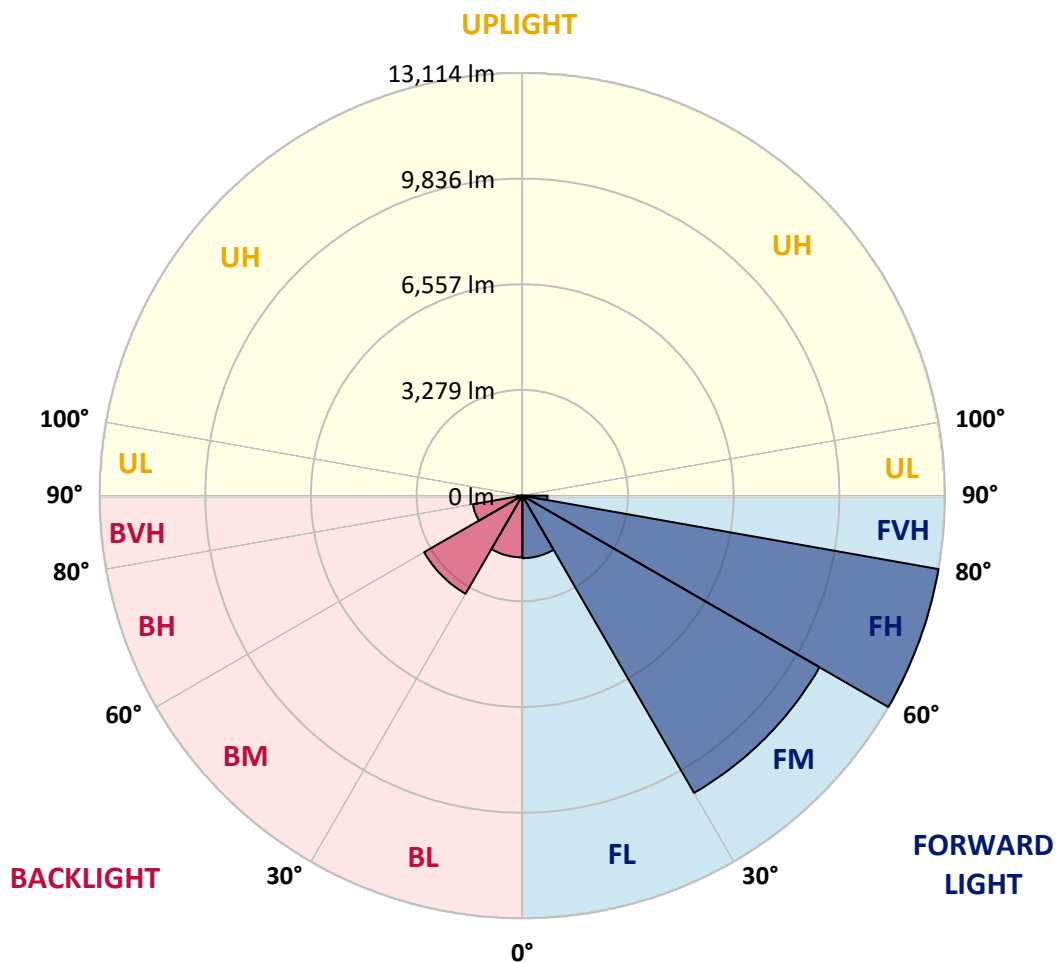
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1939.7	5.8			
FM	(30°-60°)	10647.6	31.6			
FH	(60°-80°)	13114.2	39.0			G5
FVH	(80°-90°)	786.0	2.3			G5
BL	(0°-30°)	1915.3	5.7	B3/2500		
BM	(30°-60°)	3516.6	10.5	B3/5000		
BH	(60°-80°)	1555.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	173.4	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°	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4
2.5°	4747.8	4772.0	4785.1	4831.7	4842.9	4857.8	4896.9	4949.1	5016.2	5075.9	5128.1
5°	4352.6	4389.9	4412.3	4453.3	4533.4	4540.9	4645.3	4764.6	4900.6	5027.4	5131.8
7.5°	3977.9	4018.9	4037.6	4112.1	4218.4	4235.2	4388.0	4576.3	4803.7	4995.7	5156.0
10°	3696.5	3717.0	3758.0	3813.9	3940.6	3951.8	4151.3	4402.9	4697.5	4980.8	5197.0
12.5°	3543.6	3554.8	3564.1	3623.8	3748.7	3765.4	3974.2	4259.4	4613.6	4992.0	5264.1
15°	3566.0	3569.7	3528.7	3539.9	3640.5	3664.8	3871.7	4164.3	4561.4	5019.9	5364.8
17.5°	3754.2	3741.2	3640.5	3588.3	3659.2	3670.4	3851.2	4127.1	4537.2	5072.1	5469.2
20°	4050.6	4032.0	3858.6	3743.1	3784.1	3793.4	3918.3	4155.0	4561.4	5157.9	5631.4
22.5°	4419.7	4412.3	4149.4	4009.6	4007.8	4007.8	4073.0	4255.7	4634.1	5275.3	5801.0
25°	4936.1	4896.9	4553.9	4373.1	4322.8	4319.1	4311.6	4421.6	4727.3	5400.2	6002.3
27.5°	5465.5	5398.4	5092.6	4814.9	4706.8	4693.7	4645.3	4656.5	4846.6	5541.9	6231.6
30°	5940.8	5897.9	5610.9	5303.3	5174.7	5144.8	5010.6	4949.1	5046.0	5797.3	6597.0
32.5°	6304.3	6278.2	6054.5	5774.9	5584.8	5579.2	5383.4	5333.1	5357.3	6106.7	7014.5
35°	6598.8	6608.1	6494.4	6252.1	6034.0	6002.3	5871.8	5808.5	5737.6	6554.1	7540.2
37.5°	7001.5	7022.0	7014.5	6805.7	6539.2	6546.6	6516.8	6412.4	6224.1	7053.7	8123.6
40°	7445.1	7460.0	7458.2	7378.0	7238.2	7245.7	7234.5	7115.2	6833.7	7689.3	8772.3
42.5°	8058.4	7987.6	7803.0	7883.2	7965.2	8000.6	8077.0	7963.3	7577.5	8367.8	9381.9
45°	8744.4	8610.2	8192.6	8229.9	8533.7	8600.8	9022.1	8865.5	8384.6	9147.0	10099.5
47.5°	9176.8	9044.5	8692.2	8684.7	9087.4	9152.6	9898.2	9840.4	9119.0	9987.7	10975.7
50°	9562.7	9544.1	9147.0	9242.1	9635.4	9732.3	10852.6	10798.6	9851.6	10979.4	11930.1
52.5°	10135.0	9984.0	9667.1	9862.8	10382.9	10509.6	11799.6	11641.1	10524.6	11855.5	12856.5
55°	10392.2	10356.8	10338.1	10507.8	11221.7	11313.1	12720.4	12356.9	11098.7	12597.4	13561.1
57.5°	11080.0	11014.8	11199.3	11314.9	12209.7	12349.5	13682.3	13104.4	11602.0	13186.4	13904.1
60°	11971.1	11935.7	12105.3	12314.1	13313.2	13525.7	14778.4	13741.9	12006.5	13482.8	13715.8
62.5°	13302.0	13298.3	13266.6	13714.0	14877.2	15072.9	16036.6	14362.7	12069.9	13261.0	12742.8
65°	15210.8	15143.7	14867.8	15356.2	16823.3	17052.5	17347.1	14709.4	11687.7	12122.1	10729.6
67.5°	17207.3	17203.5	16979.8	17613.6	19617.5	19854.2	18985.6	14633.0	10627.1	9819.9	7620.3
70°	18862.6	18782.4	19067.6	20756.4	23187.2	23461.2	20419.1	13732.6	8464.8	6485.1	4527.8
72.5°	19259.6	19263.3	19856.1	23179.7	26615.2	26658.1	20935.4	11130.4	5664.9	3577.2	2264.8
74°	18036.8	18068.5	18987.4	23300.9	27254.6	27060.7	19615.6	8748.1	3830.7	2335.7	1632.9
75°	16463.5	16264.0	17593.1	22493.8	26591.0	26382.2	18070.3	7020.1	2922.9	1865.9	1429.7
77.5°	8802.2	9005.3	11055.8	16786.0	21602.7	21362.3	12252.5	3366.5	1578.9	1299.3	1029.0
80°	3133.5	3456.0	4857.8	8783.5	13850.1	13924.6	5847.6	1543.5	1111.0	958.1	727.0
82.5°	1278.8	1314.2	2085.9	3897.8	7033.1	7100.3	2387.9	917.1	794.1	659.9	434.3
85°	499.6	514.5	922.7	1752.2	3001.2	3196.9	825.8	484.7	488.4	378.4	221.8
87.5°	167.8	190.1	378.4	583.5	1019.6	999.1	240.5	143.5	175.2	164.0	69.0
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°	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4	5137.4
2.5°	5154.2	5189.6	5213.8	5239.9	5264.1	5271.6	5266.0	5282.8	5284.6	5286.5	5288.4
5°	5184.0	5232.5	5279.1	5305.2	5316.3	5307.0	5275.3	5258.5	5243.6	5232.5	5236.2
7.5°	5225.0	5294.0	5336.8	5348.0	5318.2	5275.3	5197.0	5135.5	5096.4	5070.3	5068.4
10°	5288.4	5355.5	5390.9	5359.2	5277.2	5172.8	5049.8	4934.2	4846.6	4820.5	4818.6
12.5°	5368.5	5445.0	5443.1	5349.9	5206.4	5019.9	4820.5	4686.3	4567.0	4507.3	4531.6
15°	5472.9	5530.7	5476.6	5308.9	5081.5	4826.1	4580.0	4397.3	4263.1	4199.8	4203.5
17.5°	5594.1	5644.4	5500.9	5236.2	4906.2	4578.2	4293.0	4119.6	4013.3	3966.7	3963.0
20°	5745.1	5760.0	5500.9	5109.4	4680.7	4289.2	4017.1	3895.9	3836.3	3812.0	3819.5
22.5°	5907.2	5877.4	5471.1	4930.5	4384.3	3987.3	3804.6	3750.5	3720.7	3717.0	3720.7
25°	6089.9	6006.0	5409.5	4688.1	4074.9	3726.3	3620.0	3629.3	3634.9	3634.9	3648.0
27.5°	6313.6	6145.8	5307.0	4382.4	3713.2	3484.0	3454.1	3519.4	3549.2	3554.8	3564.1
30°	6608.1	6298.7	5137.4	4000.3	3405.7	3265.9	3318.0	3405.7	3439.2	3459.7	3456.0
32.5°	6958.6	6466.5	4908.1	3618.2	3157.7	3113.0	3176.4	3265.9	3303.1	3314.3	3299.4
35°	7370.5	6656.6	4606.1	3260.3	2941.5	2967.6	3042.2	3070.1	3103.7	3103.7	3111.1
37.5°	7814.2	6809.5	4237.0	2932.2	2773.7	2868.8	2922.9	2896.8	2881.9	2863.2	2872.5
40°	8265.3	6923.2	3758.0	2607.8	2606.0	2766.3	2781.2	2706.6	2647.0	2628.3	2619.0
42.5°	8658.6	6994.0	3325.5	2356.2	2447.5	2665.6	2676.8	2557.5	2462.4	2406.5	2387.9
45°	9122.8	7076.0	2902.4	2147.4	2300.3	2585.5	2613.4	2453.1	2313.3	2195.9	2166.1
47.5°	9758.4	7262.4	2568.7	1985.2	2194.0	2535.1	2574.3	2367.4	2182.8	2030.0	2005.7
50°	10476.1	7517.8	2309.6	1875.3	2112.0	2490.4	2538.9	2279.8	2061.7	1892.0	1873.4
52.5°	11134.1	7655.7	2085.9	1776.5	2031.8	2408.4	2492.3	2216.4	1942.4	1754.1	1737.3
55°	11493.9	7432.1	1865.9	1679.5	1921.9	2302.1	2427.0	2128.8	1826.8	1681.4	1657.2
57.5°	11542.3	6969.8	1666.5	1575.1	1806.3	2171.6	2305.9	2022.5	1752.2	1631.1	1610.6
60°	11167.7	6280.1	1511.8	1489.4	1688.8	2024.4	2169.8	1929.3	1675.8	1575.1	1554.6
62.5°	10235.6	5530.7	1403.6	1411.1	1569.5	1869.7	2069.1	1839.8	1603.1	1513.6	1495.0
65°	8632.5	4565.1	1299.3	1330.9	1463.3	1748.5	1977.8	1765.3	1530.4	1467.0	1450.2
67.5°	5996.7	3295.7	1213.5	1247.1	1362.6	1625.5	1871.5	1685.1	1448.4	1414.8	1388.7
70°	3319.9	2028.1	1112.9	1152.0	1258.2	1487.5	1752.2	1564.0	1329.1	1314.2	1276.9
72.5°	1744.8	1291.8	999.1	1042.0	1116.6	1310.4	1569.5	1431.6	1211.6	1148.3	1099.8
74°	1362.6	1058.8	922.7	967.5	1017.8	1206.1	1461.4	1336.5	1127.8	1053.2	1015.9
75°	1187.4	943.2	857.5	915.3	960.0	1135.2	1377.5	1269.4	1081.2	1010.3	976.8
77.5°	838.8	706.5	700.9	769.9	794.1	995.4	1241.5	1155.7	963.7	889.2	857.5
80°	589.0	529.4	555.5	598.4	631.9	879.8	1152.0	999.1	790.4	702.8	691.6
82.5°	384.0	346.7	397.0	436.2	447.4	648.7	930.2	758.7	576.0	467.9	434.3
85°	177.1	173.4	227.4	221.8	220.0	316.9	551.8	443.6	331.8	247.9	233.0
87.5°	44.7	42.9	55.9	46.6	55.9	48.5	50.3	13.0	1.9	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)