

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: P522881

Luminaire Tested: **GALN-SA8B-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522881
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-SA8B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 33802 lumens
Efficiency: N/A
Efficacy: 104.0 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

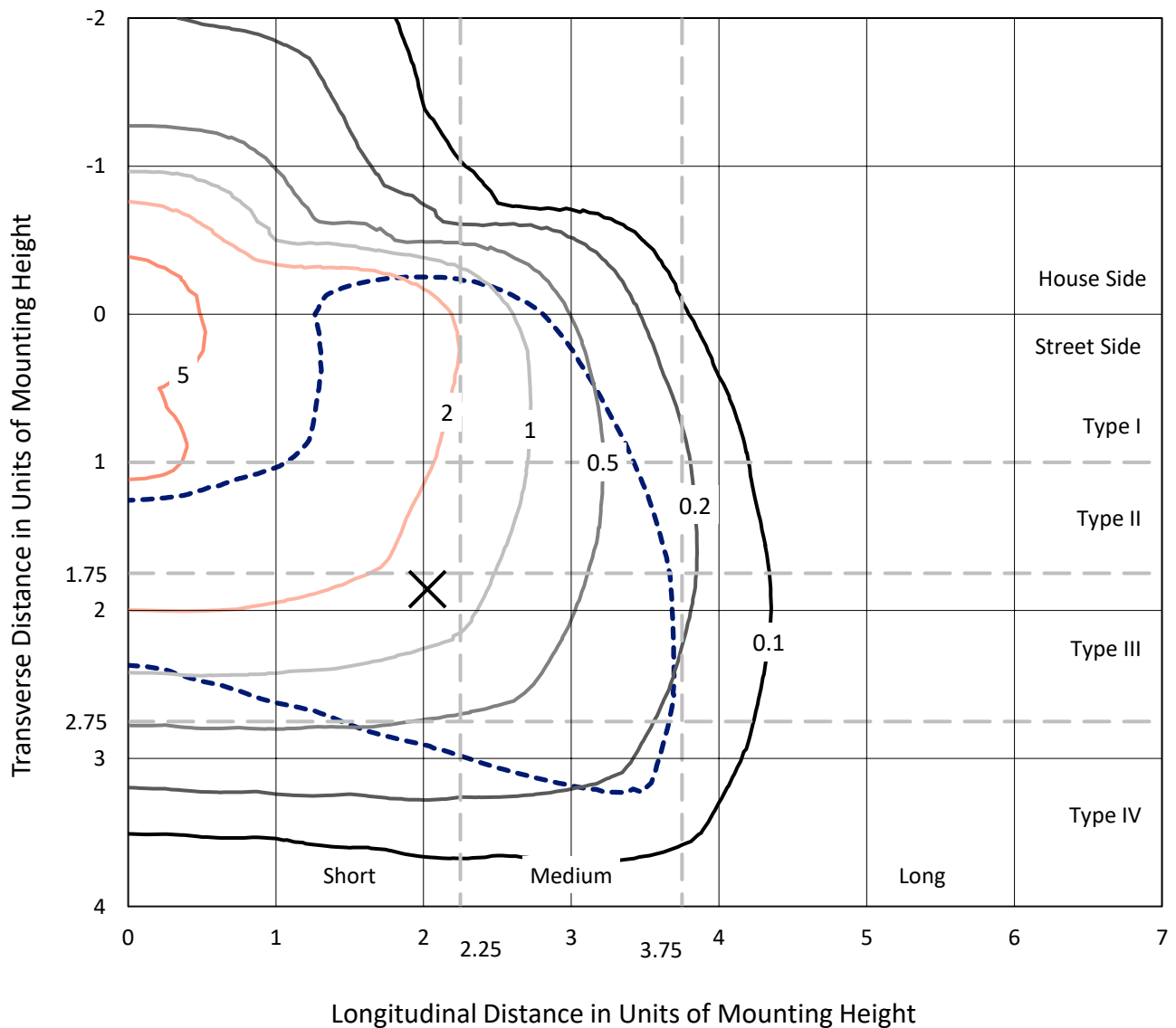
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

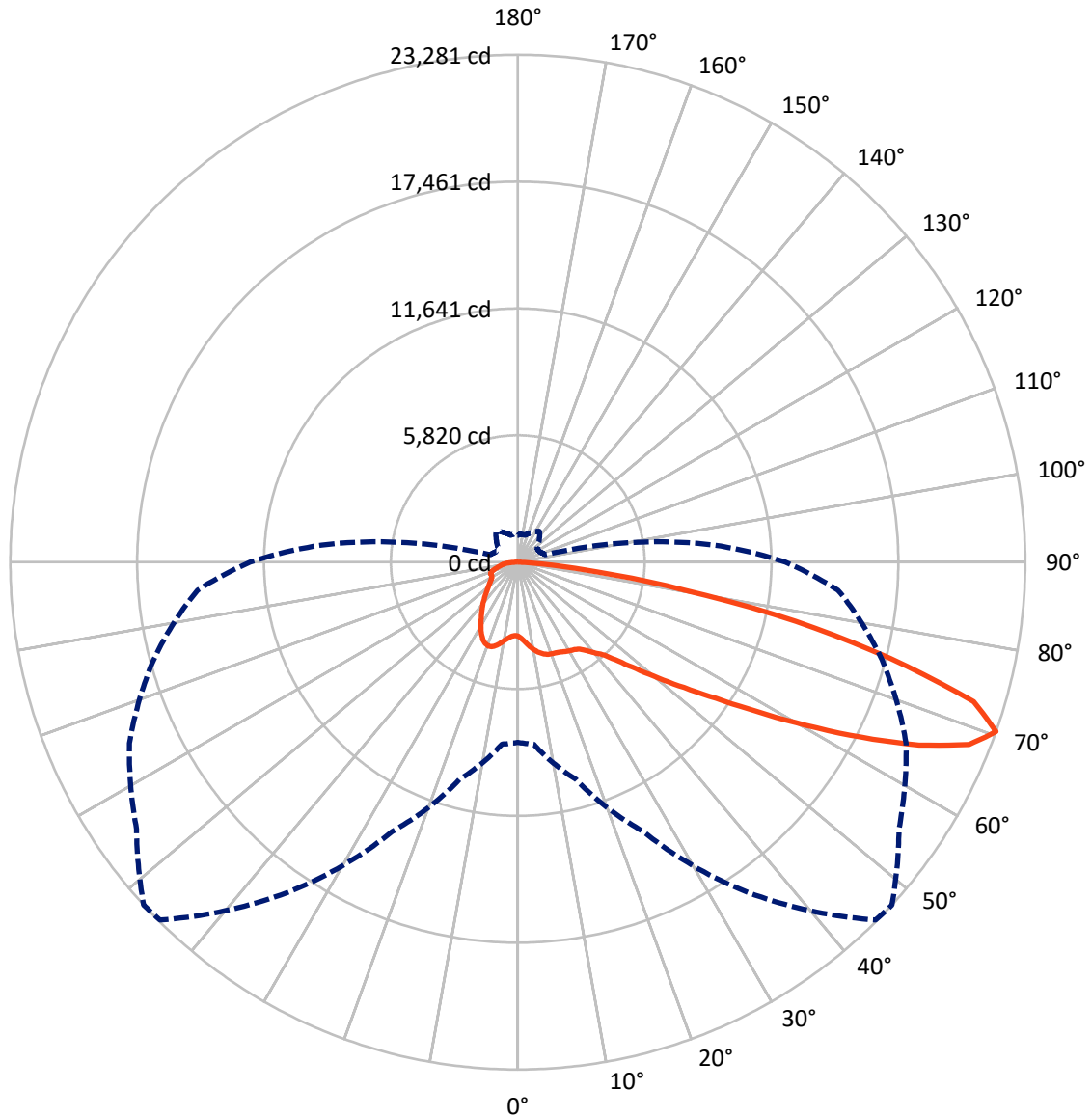
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	7653.4	0.0	7653.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26148.6	0.0	26148.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	33802.0	0.0	33802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.8	1.0
10°-20°	1169.3	3.5
20°-30°	1944.6	5.8
30°-40°	2756.2	8.2
40°-50°	4068.7	12.0
50°-60°	7047.2	20.8
60°-70°	9954.4	29.4
70°-80°	5722.3	16.9
80°-90°	789.5	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°	33802.0	100.0
0°-180°	33802.0	100.0

Coefficient of Utilization



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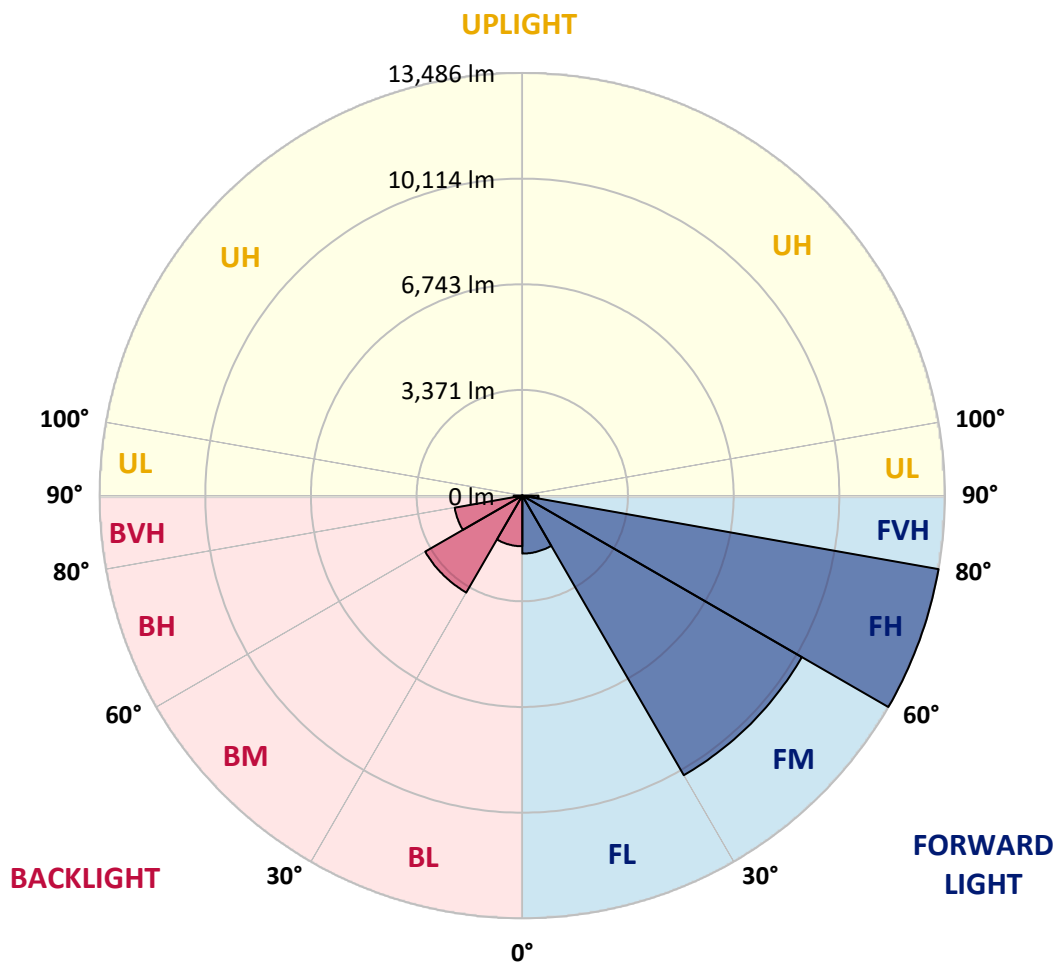
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.4	5.5			
FM	(30°-60°)	10298.8	30.5			
FH	(60°-80°)	13485.6	39.9			G5
FVH	(80°-90°)	515.8	1.5			G4/750
BL	(0°-30°)	1615.3	4.8	B3/2500		
BM	(30°-60°)	3573.3	10.6	B3/5000		
BH	(60°-80°)	2191.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	273.8	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°	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3
2.5°	3612.2	3599.5	3597.7	3570.6	3556.1	3529.0	3518.1	3492.8	3462.0	3431.3	3402.4
5°	3896.2	3896.2	3883.5	3845.5	3785.8	3724.3	3697.2	3648.4	3561.5	3491.0	3431.3
7.5°	4187.4	4191.0	4165.7	4109.6	4024.6	3925.1	3899.8	3827.4	3704.4	3601.3	3512.7
10°	4438.8	4438.8	4404.4	4328.5	4221.7	4113.2	4087.9	4006.5	3869.0	3740.6	3624.8
12.5°	4630.5	4630.5	4585.3	4485.8	4370.1	4272.4	4243.5	4165.7	4037.2	3894.4	3747.8
15°	4755.3	4746.3	4695.7	4583.5	4471.4	4386.3	4366.4	4301.3	4183.8	4039.1	3874.5
17.5°	4760.8	4757.2	4708.3	4614.3	4516.6	4458.7	4446.0	4402.6	4310.4	4172.9	3999.3
20°	4655.9	4663.1	4630.5	4563.6	4516.6	4491.3	4485.8	4471.4	4406.2	4277.8	4104.2
22.5°	4543.7	4556.4	4525.6	4489.4	4485.8	4511.2	4514.8	4518.4	4476.8	4352.0	4192.8
25°	4516.6	4525.6	4494.9	4462.3	4482.2	4549.1	4563.6	4578.1	4545.5	4440.6	4297.7
27.5°	4654.0	4646.8	4587.1	4516.6	4529.2	4619.7	4639.6	4655.9	4639.6	4549.1	4427.9
30°	5042.9	5019.4	4900.0	4693.8	4628.7	4692.0	4711.9	4757.2	4757.2	4690.2	4569.0
32.5°	5694.1	5648.9	5430.0	5024.9	4798.8	4760.8	4780.7	4854.8	4892.8	4840.4	4708.3
35°	6484.6	6437.5	6124.6	5580.2	5109.9	4898.2	4892.8	4976.0	5077.3	4959.7	4787.9
37.5°	7278.6	7229.8	6853.6	6242.2	5563.9	5187.6	5155.1	5184.0	5227.4	5012.2	4898.2
40°	8072.7	8014.8	7685.6	6982.0	6119.2	5571.1	5486.1	5355.9	5337.8	5184.0	5111.7
42.5°	8859.5	8807.1	8640.7	7812.2	6784.8	5945.5	5815.3	5591.0	5659.7	5567.5	5504.2
45°	9653.6	9657.2	9479.9	8743.8	7587.9	6636.5	6461.0	6110.1	6272.9	6238.6	6274.7
47.5°	10357.2	10348.2	10284.9	9648.2	8584.6	7526.4	7300.3	6893.3	7171.9	7298.5	7575.3
50°	11039.1	11033.7	11037.3	10673.7	9742.2	8584.6	8335.0	7908.1	8535.7	8975.3	9470.9
52.5°	12015.9	12046.6	11827.8	11731.9	11149.5	9834.5	9559.5	9118.2	10147.4	10840.2	11807.9
55°	12996.2	12970.9	12799.1	12898.6	12621.8	11314.1	11026.5	10675.6	11941.7	12699.6	14153.9
57.5°	13573.3	13582.3	13757.8	14244.3	14439.7	13159.0	12898.6	12627.3	13958.5	14495.7	16241.2
60°	14092.4	14134.0	14638.6	15557.5	16087.5	15425.5	15193.9	14929.9	15808.9	16022.4	18053.7
62.5°	14255.2	14383.6	15264.5	16639.2	17693.7	17983.1	17695.5	17113.1	17570.7	17487.5	19281.8
65°	13443.0	13618.5	15197.6	17044.3	19128.1	20410.5	20227.8	19146.2	19072.0	18571.0	19482.6
67.5°	11305.0	11480.5	13508.1	16194.2	19721.4	22512.4	22329.7	20629.4	19983.7	18672.3	17963.2
70°	8271.7	8382.0	10321.0	13634.8	18529.4	23217.8	23281.1	21352.9	19658.1	17295.8	14749.0
72.5°	4766.2	5010.4	6368.8	9592.1	15137.9	21434.3	21873.9	19848.0	17599.7	14428.8	10312.0
75°	2049.4	2054.8	2944.7	5290.7	10252.3	17228.8	17653.9	16452.9	13821.1	9977.4	5506.0
77.5°	974.9	993.0	1295.1	2362.3	5643.5	11903.7	13050.5	11623.4	8839.6	4793.3	2080.1
80°	633.1	645.7	792.3	1172.1	2767.5	6902.4	7701.9	6705.2	3899.8	1712.9	897.2
82.5°	383.5	387.1	530.0	716.3	1523.0	3125.6	3684.5	2910.4	1664.1	1025.6	528.2
85°	233.3	235.1	322.0	443.2	924.3	1079.9	1108.8	1099.8	976.8	671.1	282.2
87.5°	112.1	115.8	166.4	209.8	363.6	334.6	316.5	367.2	461.2	361.8	121.2
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°	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3	3393.3
2.5°	3389.7	3384.3	3371.6	3366.2	3362.6	3364.4	3362.6	3362.6	3364.4	3364.4	3364.4
5°	3406.0	3396.9	3377.0	3377.0	3387.9	3413.2	3436.7	3454.8	3474.7	3472.9	3472.9
7.5°	3476.5	3460.2	3436.7	3444.0	3471.1	3510.9	3552.5	3592.3	3632.1	3635.7	3633.9
10°	3579.6	3563.3	3538.0	3547.1	3590.5	3650.2	3702.6	3760.5	3803.9	3816.6	3813.0
12.5°	3697.2	3664.6	3642.9	3668.3	3737.0	3816.6	3867.2	3910.6	3941.4	3959.5	3952.2
15°	3816.6	3785.8	3760.5	3813.0	3896.2	3970.3	3995.6	4002.9	4008.3	4026.4	4022.8
17.5°	3932.3	3890.7	3881.7	3950.4	4030.0	4062.6	4048.1	4017.4	3993.8	4008.3	4006.5
20°	4035.4	4002.9	3999.3	4068.0	4098.7	4068.0	4006.5	3952.2	3910.6	3914.2	3912.4
22.5°	4133.1	4107.8	4111.4	4140.3	4091.5	3986.6	3885.3	3811.1	3765.9	3775.0	3780.4
25°	4241.6	4216.3	4225.4	4178.3	4017.4	3834.7	3688.1	3624.8	3606.8	3624.8	3637.5
27.5°	4382.7	4366.4	4361.0	4180.1	3885.3	3610.4	3444.0	3420.4	3436.7	3476.5	3496.4
30°	4534.7	4534.7	4505.7	4149.4	3704.4	3340.9	3196.2	3199.8	3255.8	3311.9	3331.8
32.5°	4681.2	4711.9	4621.5	4066.2	3471.1	3078.6	2968.2	2971.9	3020.7	3089.4	3107.5
35°	4802.4	4891.0	4721.0	3914.2	3196.2	2857.9	2774.7	2725.9	2727.7	2780.1	2794.6
37.5°	4968.8	5133.4	4778.9	3688.1	2903.1	2669.8	2575.7	2490.7	2434.6	2412.9	2412.9
40°	5258.2	5500.6	4793.3	3353.5	2626.4	2490.7	2356.9	2255.6	2147.0	2049.4	2031.3
42.5°	5748.4	6054.1	4764.4	2968.2	2376.8	2293.6	2163.3	2038.5	1888.4	1750.9	1740.1
45°	6616.6	6774.0	4686.6	2568.5	2154.3	2103.6	1977.0	1841.4	1682.2	1559.2	1550.1
47.5°	8007.6	7785.1	4583.5	2214.0	1951.7	1937.2	1839.6	1682.2	1523.0	1438.0	1429.0
50°	10038.9	9376.8	4569.0	1957.1	1788.9	1796.1	1716.6	1571.8	1432.6	1362.0	1351.2
52.5°	12484.4	11299.6	4664.9	1776.2	1646.0	1673.1	1633.3	1499.5	1376.5	1316.8	1306.0
55°	14857.5	13028.8	4722.8	1635.2	1512.2	1562.8	1568.2	1456.1	1343.9	1284.2	1277.0
57.5°	16783.9	14331.1	4465.9	1506.7	1396.4	1474.2	1514.0	1430.8	1327.7	1282.4	1275.2
60°	18124.2	14946.1	3735.2	1392.8	1311.4	1403.6	1494.1	1432.6	1367.5	1372.9	1376.5
62.5°	18551.1	14673.0	2801.8	1307.8	1253.5	1380.1	1526.6	1506.7	1439.8	1481.4	1488.6
65°	17843.8	13544.3	2031.3	1240.8	1202.9	1396.4	1624.3	1561.0	1414.5	1445.2	1445.2
67.5°	15476.1	11668.6	1580.9	1179.3	1145.0	1427.1	1722.0	1555.6	1354.8	1391.0	1358.4
70°	12276.3	9025.9	1316.8	1110.6	1083.5	1381.9	1731.0	1499.5	1284.2	1291.5	1230.0
72.5°	8146.8	5934.7	1132.3	1045.5	989.4	1242.6	1656.9	1427.1	1215.5	1173.9	1112.4
75°	3992.0	2959.2	987.6	964.1	866.4	1081.7	1555.6	1358.4	1141.4	1076.2	1041.9
77.5°	1546.5	1258.9	842.9	861.0	754.3	953.2	1421.7	1260.7	1043.7	955.0	927.9
80°	750.7	714.5	691.0	718.1	620.4	812.2	1298.7	1175.7	953.2	855.6	815.8
82.5°	466.7	441.3	530.0	558.9	477.5	741.6	1231.8	1103.4	839.3	709.1	676.5
85°	237.0	253.2	354.5	381.7	341.9	589.7	1014.7	828.4	605.9	502.8	506.5
87.5°	90.4	121.2	186.3	200.8	182.7	311.1	558.9	483.0	388.9	264.1	244.2
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)