

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: P453445

Luminaire Tested: **GALN-SA4C-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23217 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

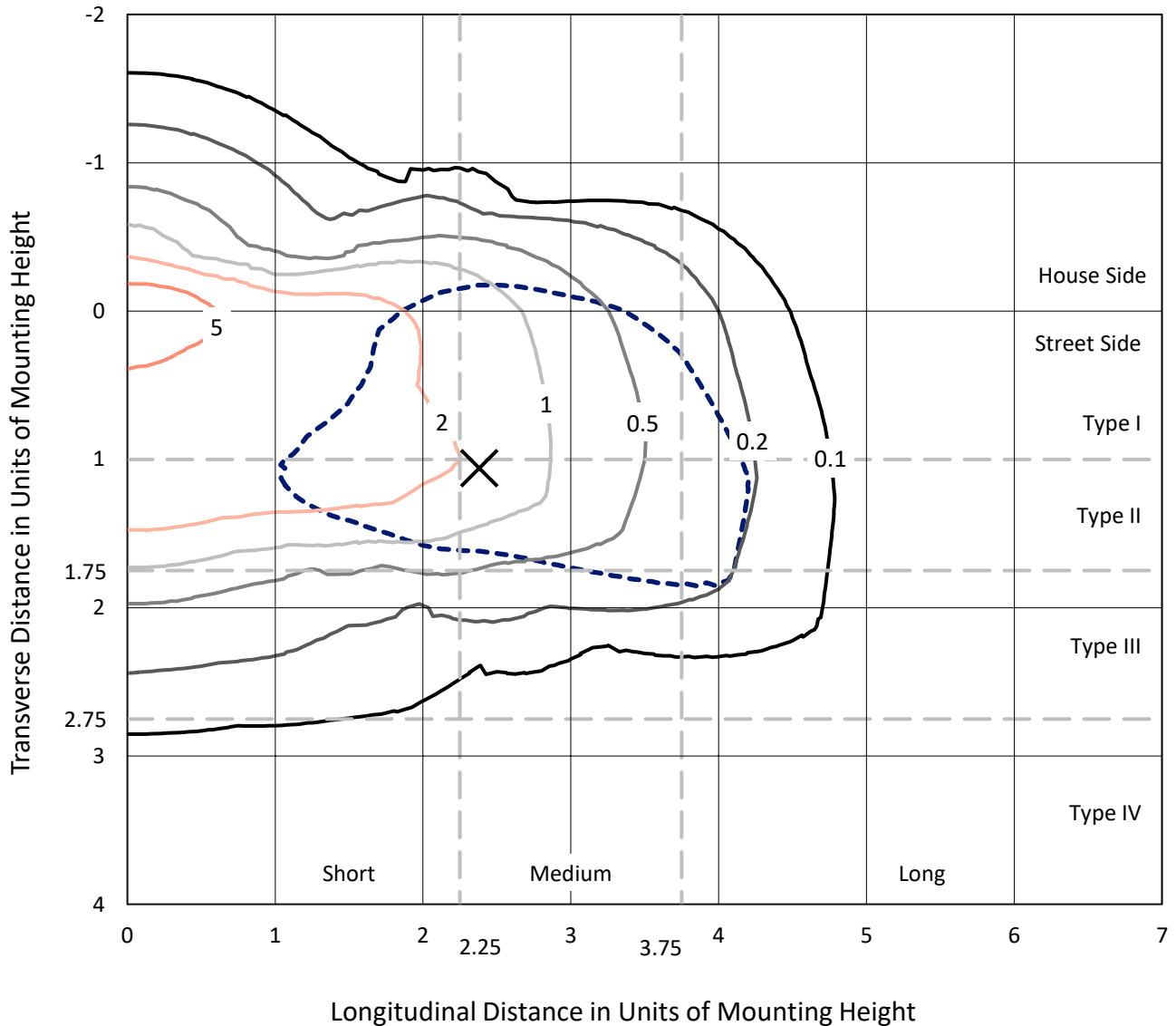
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

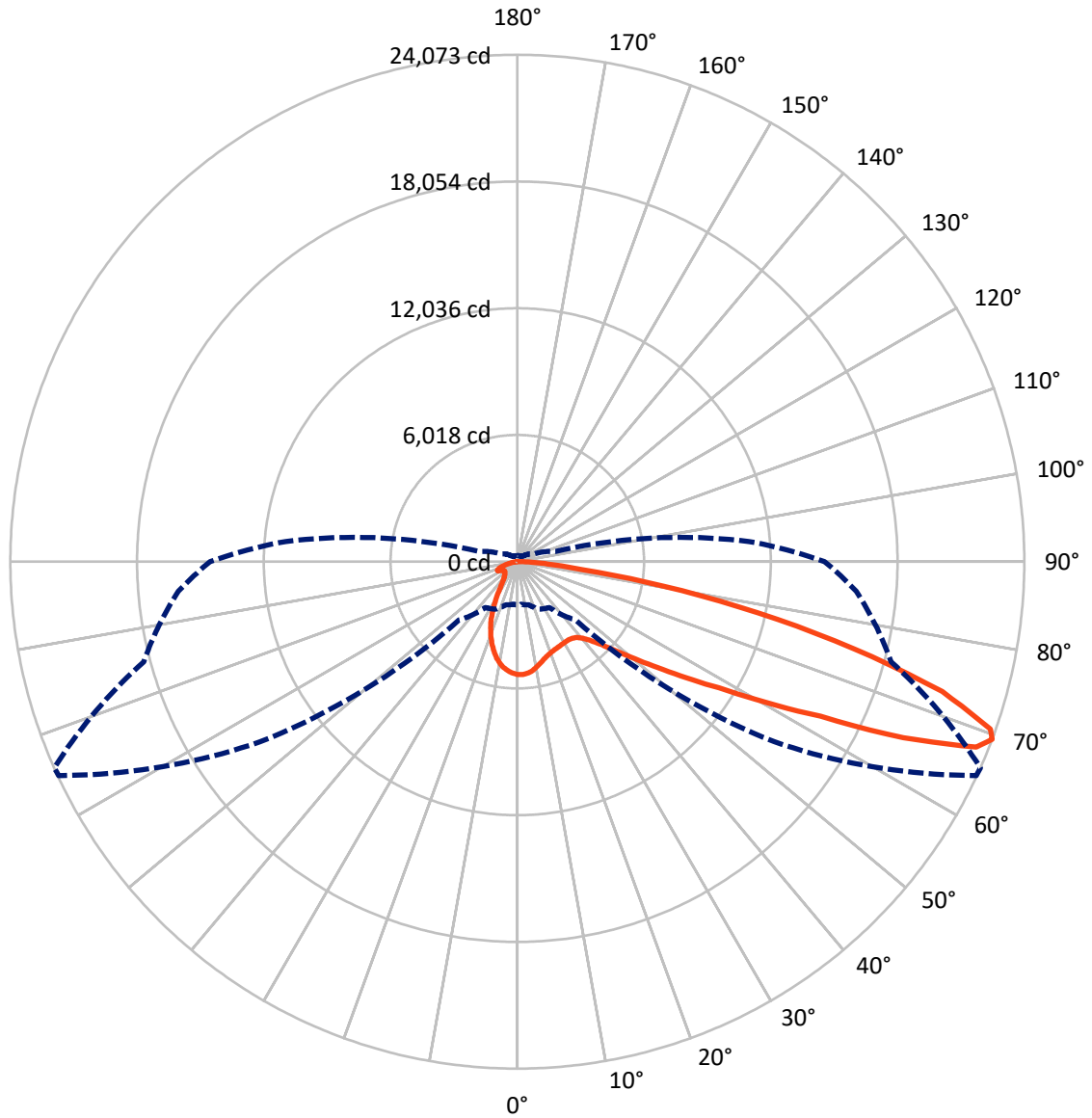
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4366.2	0.0	4366.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18850.8	0.0	18850.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	23217.0	0.0	23217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	2.0
10°-20°	1104.3	4.8
20°-30°	1503.4	6.5
30°-40°	2020.2	8.7
40°-50°	3016.6	13.0
50°-60°	4798.3	20.7
60°-70°	5901.7	25.4
70°-80°	3839.9	16.5
80°-90°	567.0	2.4
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°	23217.0	100.0
0°-180°	23217.0	100.0

Coefficient of Utilization



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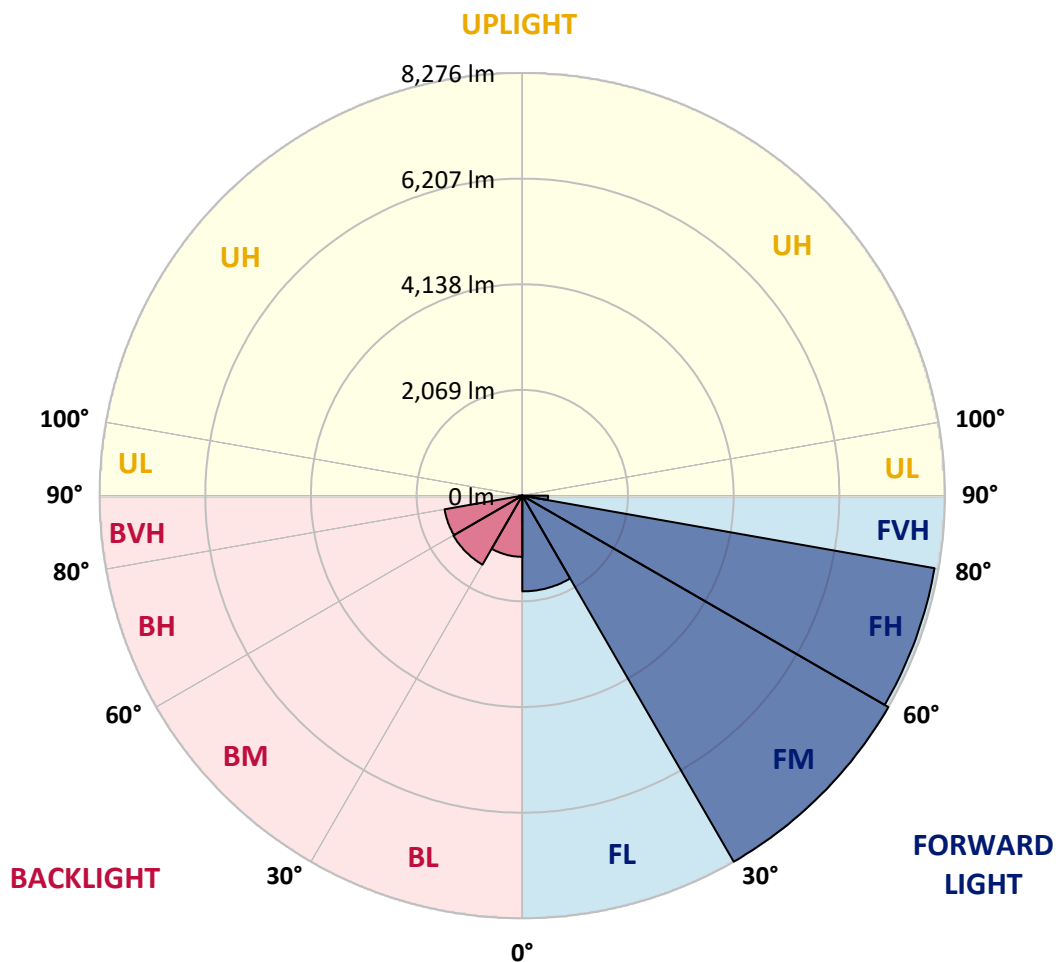
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1874.7	8.1			
FM	(30°-60°)	8276.2	35.6			
FH	(60°-80°)	8195.7	35.3			G4/12000
FVH	(80°-90°)	504.1	2.2			G4/750
BL	(0°-30°)	1198.6	5.2	B3/2500		
BM	(30°-60°)	1558.9	6.7	B2/2500		
BH	(60°-80°)	1545.8	6.7	B3/2500		G3/2500
BVH	(80°-90°)	62.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5
2.5°	5173.7	5194.3	5217.4	5243.2	5292.0	5319.0	5338.3	5360.2	5362.7	5374.3	5365.3
5°	4791.9	4816.3	4851.0	4899.9	4973.2	5087.6	5205.9	5302.3	5313.9	5367.9	5383.3
7.5°	4473.0	4487.2	4515.4	4593.9	4698.0	4825.3	4997.6	5193.0	5221.3	5349.9	5394.9
10°	4213.3	4227.4	4260.9	4341.9	4444.7	4604.2	4793.2	5050.3	5073.4	5294.6	5397.5
12.5°	4019.2	4032.0	4068.0	4147.7	4266.0	4415.2	4623.4	4896.0	4929.4	5221.3	5373.0
15°	3871.3	3895.7	3925.3	3990.9	4115.6	4259.6	4461.4	4754.6	4781.6	5144.2	5356.3
17.5°	3808.3	3819.9	3840.4	3900.9	3992.2	4133.6	4336.7	4644.0	4676.2	5090.2	5352.5
20°	3810.9	3822.4	3826.3	3859.7	3925.3	4047.4	4248.0	4556.6	4595.2	5042.6	5358.9
22.5°	3898.3	3899.6	3885.4	3873.9	3899.6	4001.2	4185.0	4491.0	4536.0	5022.0	5364.0
25°	4033.3	4056.4	4035.9	3981.9	3934.3	3983.2	4160.6	4455.0	4497.4	4992.4	5357.6
27.5°	4251.9	4255.7	4239.0	4165.7	4042.3	4006.3	4150.3	4428.0	4464.0	4970.6	5325.5
30°	4545.0	4533.4	4518.0	4437.0	4242.9	4095.0	4172.2	4403.6	4440.9	4938.4	5286.9
32.5°	4842.0	4878.0	4863.9	4768.7	4516.7	4267.3	4242.9	4401.0	4431.9	4914.0	5244.4
35°	5157.0	5173.7	5240.6	5191.7	4933.3	4546.3	4375.3	4440.9	4465.3	4915.3	5214.9
37.5°	5403.9	5448.9	5605.7	5648.2	5405.2	4915.3	4590.0	4554.0	4564.3	4978.3	5226.4
40°	5702.2	5779.3	5981.2	6154.7	5995.3	5394.9	4955.2	4763.6	4776.4	5130.0	5302.3
42.5°	6080.2	6134.2	6405.5	6640.7	6615.0	6028.7	5397.5	5106.9	5113.3	5432.2	5514.5
45°	6522.5	6599.6	6904.3	7257.9	7318.3	6746.2	6036.5	5626.3	5622.5	5901.5	5910.5
47.5°	7088.2	7135.7	7437.9	7823.6	8067.9	7647.5	6811.7	6372.0	6330.9	6585.5	6512.2
50°	7608.9	7683.5	7912.3	8334.0	8942.2	8703.0	7831.3	7338.9	7242.5	7480.3	7356.9
52.5°	7827.5	7905.9	8098.7	8622.0	9691.8	10068.5	9126.0	8492.2	8331.5	8514.0	8469.0
55°	7448.2	7549.7	7729.7	8366.2	10020.9	11643.5	10872.0	9825.5	9708.5	9630.0	9642.9
57.5°	6428.6	6525.0	6768.0	7470.0	9627.5	12786.5	13365.1	11539.3	11288.6	10927.3	10989.0
60°	4893.4	4953.9	5079.9	5857.7	8461.3	13083.5	16196.2	13705.8	13546.3	12219.5	12263.2
62.5°	3475.3	3543.4	3630.9	4019.2	6194.6	12246.5	18412.8	16731.1	16161.5	13557.9	13515.5
65°	2822.2	2775.9	2881.3	3062.6	3634.7	9491.2	18911.6	20930.2	20145.9	15320.6	14731.8
67.5°	2320.7	2271.9	2376.0	2698.7	2764.3	5509.3	17114.2	23656.0	23499.1	17237.6	15967.4
69°	2054.6	2028.9	2120.2	2487.9	2653.7	3912.4	14909.2	24035.2	24072.5	18367.8	16157.6
70°	1851.4	1861.7	1950.4	2381.2	2603.6	3225.9	12742.8	23512.0	23828.2	18932.2	15951.9
72.5°	1362.9	1384.7	1508.1	1972.3	2556.0	2737.3	7583.2	20536.8	21096.1	18965.6	14592.9
75°	952.7	942.4	1051.7	1485.0	2414.6	2712.9	4453.7	15882.5	16516.4	16392.9	12261.9
77.5°	623.6	640.3	727.7	1049.1	2031.4	2692.3	2903.2	11268.0	11679.5	10963.3	7252.7
80°	439.7	438.4	487.3	716.1	1506.9	2586.9	2377.3	7102.3	6998.2	4308.4	2151.0
82.5°	252.0	270.0	326.6	504.0	1008.0	2277.0	2187.0	3396.9	3101.2	1227.9	726.4
85°	140.1	146.6	194.1	304.7	588.9	1715.1	1909.3	1545.4	1458.0	513.0	312.4
87.5°	45.0	48.9	81.0	154.3	267.4	810.0	1081.3	713.6	658.3	185.1	126.0
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°	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5	5361.5
2.5°	5369.2	5384.6	5343.5	5303.6	5267.6	5217.4	5172.4	5135.2	5109.4	5105.6	5092.7
5°	5387.2	5388.5	5310.0	5204.6	5101.7	4988.6	4871.6	4788.0	4709.6	4665.9	4644.0
7.5°	5400.0	5388.5	5247.0	5076.0	4878.0	4672.3	4466.6	4302.0	4174.7	4124.6	4143.9
10°	5394.9	5358.9	5151.9	4878.0	4590.0	4282.7	3987.0	3755.6	3543.4	3434.2	3436.7
12.5°	5366.6	5307.5	5010.4	4655.6	4232.6	3821.2	3368.6	3056.2	2810.6	2665.3	2620.3
15°	5342.2	5239.3	4844.6	4353.4	3827.6	3240.0	2688.4	2302.7	2097.0	1982.6	1981.3
17.5°	5316.5	5173.7	4663.3	4033.3	3362.2	2606.2	2027.6	1733.1	1636.7	1648.3	1629.0
20°	5289.5	5096.6	4474.3	3677.2	2795.2	1944.0	1518.4	1398.9	1425.9	1478.6	1486.3
22.5°	5258.6	5014.3	4271.2	3285.0	2198.6	1463.1	1231.7	1213.7	1283.1	1365.4	1377.0
25°	5211.0	4911.4	4015.3	2874.9	1695.9	1179.0	1078.7	1091.6	1159.7	1229.1	1236.9
27.5°	5144.2	4784.2	3756.9	2363.2	1274.1	1011.9	986.1	1002.9	1036.3	1078.7	1089.0
30°	5054.2	4640.2	3459.9	1920.9	1020.9	928.3	918.0	927.0	946.3	964.3	969.4
32.5°	4964.2	4501.3	3160.3	1470.9	910.3	873.0	862.7	862.7	862.7	865.3	866.6
35°	4880.6	4370.2	2838.9	1145.6	852.4	829.3	815.1	799.7	797.1	788.1	788.1
37.5°	4834.3	4250.6	2496.9	959.1	810.0	793.3	774.0	748.3	734.1	735.4	732.9
40°	4843.3	4172.2	2185.7	853.7	775.3	757.3	727.7	698.1	689.1	689.1	686.6
42.5°	4944.9	4146.4	1887.4	798.4	741.9	721.3	684.0	657.0	651.9	650.6	653.1
45°	5178.9	4209.4	1620.0	762.4	713.6	682.7	645.4	621.0	615.9	615.9	614.6
47.5°	5635.3	4413.9	1428.4	739.3	693.0	653.1	614.6	590.1	581.1	578.6	578.6
50°	6345.0	4857.4	1285.7	718.7	667.3	626.1	586.3	558.0	543.9	542.6	541.3
52.5°	7331.2	5549.2	1230.4	703.3	639.0	597.9	554.1	527.1	509.1	505.3	502.7
55°	8484.5	6514.7	1306.3	691.7	609.4	565.7	520.7	492.4	475.7	468.0	466.7
57.5°	9820.3	7674.5	1594.3	676.3	582.4	531.0	487.3	459.0	441.0	432.0	429.4
60°	11019.9	8866.3	2097.0	667.3	559.3	493.7	448.7	423.0	406.3	397.3	396.0
62.5°	12337.8	10002.9	2697.4	691.7	549.0	457.7	412.7	389.6	375.4	366.4	366.4
65°	13745.6	11140.8	3094.7	774.0	564.4	429.4	374.1	354.9	342.0	335.6	334.3
67.5°	14694.5	11534.2	2549.6	858.9	603.0	398.6	336.9	321.4	313.7	307.3	307.3
69°	14591.6	11036.6	1881.0	880.7	614.6	383.1	316.3	304.7	294.4	291.9	289.3
70°	14266.3	10469.6	1576.3	866.6	605.6	369.0	303.4	289.3	280.3	277.7	276.4
72.5°	12706.8	9079.8	1173.9	753.4	515.6	320.1	268.7	255.9	248.1	244.3	244.3
75°	10557.0	7421.2	916.7	599.1	403.7	270.0	230.1	219.9	213.4	210.9	209.6
77.5°	5916.9	4143.9	658.3	469.3	306.0	218.6	192.9	183.9	177.4	174.9	174.9
80°	1648.3	1184.1	387.0	309.9	208.3	165.9	153.0	146.6	137.6	131.1	135.0
82.5°	621.0	513.0	221.1	186.4	132.4	110.6	106.7	101.6	97.7	88.7	88.7
85°	302.1	249.4	141.4	99.0	73.3	57.9	55.3	52.7	50.1	43.7	45.0
87.5°	104.1	110.6	61.7	36.0	21.9	14.1	11.6	6.4	6.4	6.4	6.4
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)