

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: P453476

Luminaire Tested: **GALN-SA4C-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25105 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

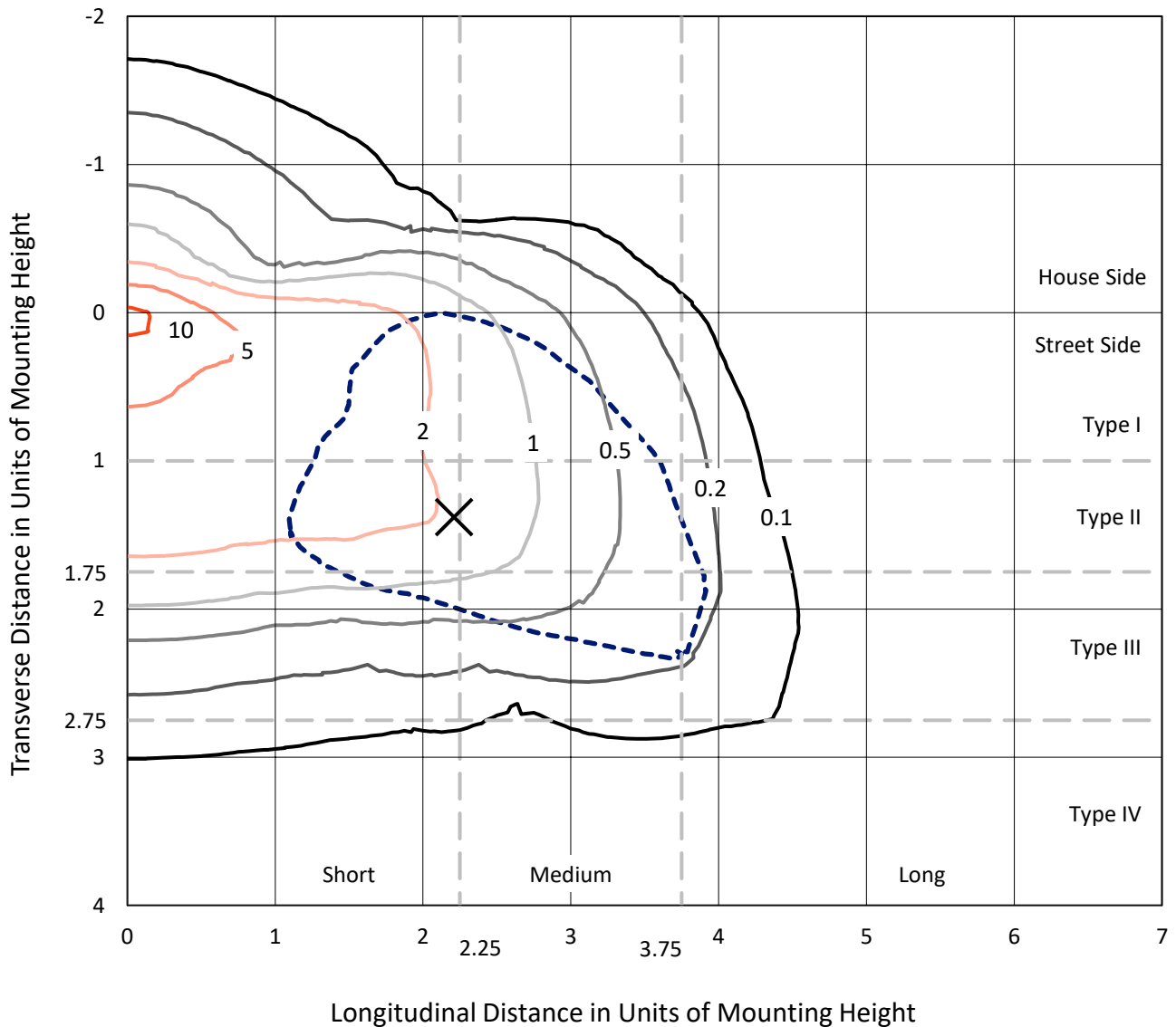
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

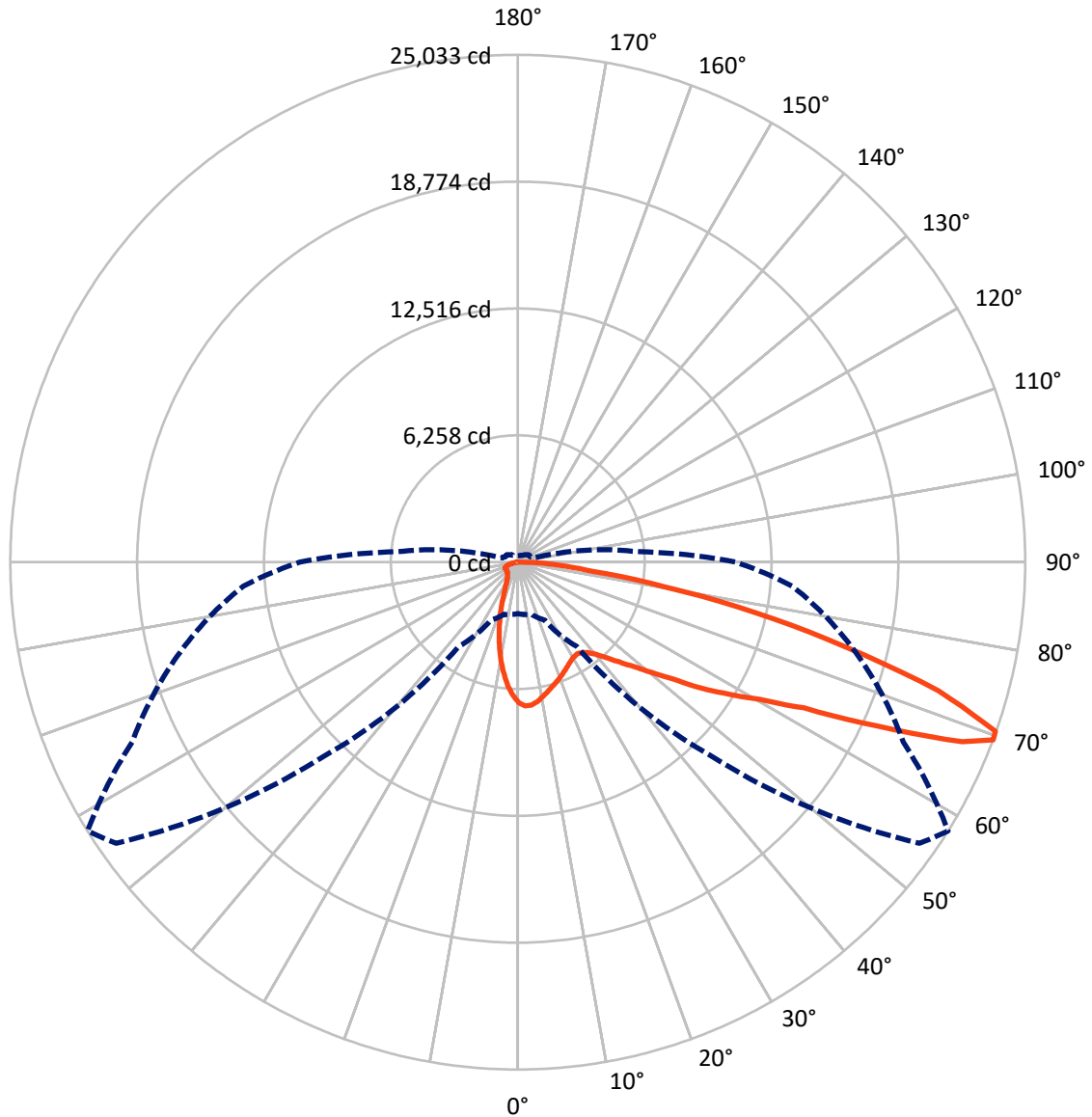
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3679.1	0.0	3679.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21425.9	0.0	21425.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	25105.0	0.0	25105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.2	2.3
10°-20°	1293.7	5.2
20°-30°	1671.5	6.7
30°-40°	2171.0	8.6
40°-50°	3156.2	12.6
50°-60°	5036.3	20.1
60°-70°	6727.9	26.8
70°-80°	3878.3	15.4
80°-90°	580.9	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°	25105.0	100.0
0°-180°	25105.0	100.0

Coefficient of Utilization



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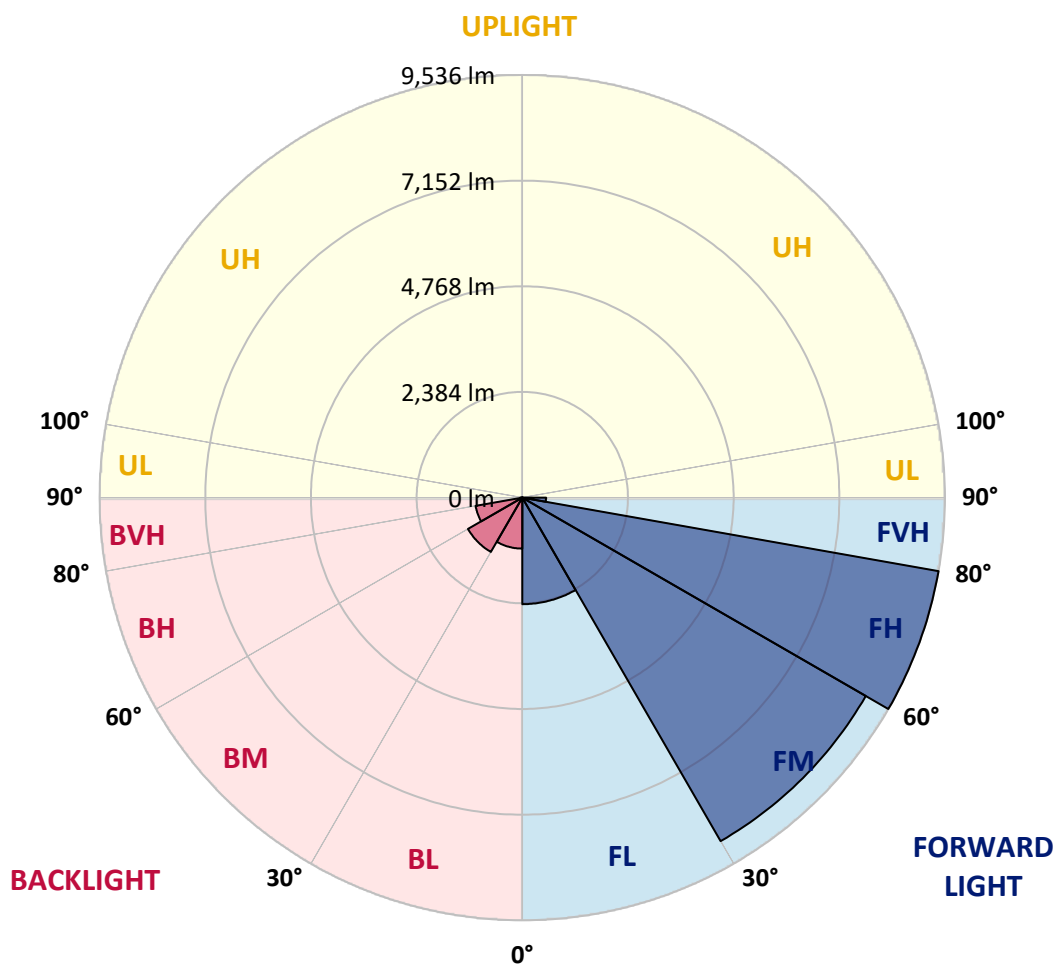
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.4	9.6			
FM (30°-60°)	8948.6	35.6			
FH (60°-80°)	9536.4	38.0			G4/12000
FVH (80°-90°)	536.4	2.1			G4/750
BL (0°-30°)	1149.9	4.6	B3/2500		
BM (30°-60°)	1414.9	5.6	B2/2500		
BH (60°-80°)	1069.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	44.5	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6
2.5°	7195.2	7214.8	7209.2	7202.2	7191.0	7160.2	7109.8	7101.4	7069.2	7000.6	6915.2
5°	7084.6	7101.4	7102.8	7112.6	7126.6	7121.0	7084.6	7080.4	7032.8	6940.4	6797.5
7.5°	6705.1	6727.5	6776.5	6831.1	6880.1	6926.4	6937.6	6944.6	6915.2	6808.7	6618.3
10°	6278.1	6300.5	6322.9	6404.1	6524.5	6639.3	6734.5	6747.1	6754.1	6656.1	6423.7
12.5°	5804.9	5851.1	5898.7	6019.1	6180.1	6360.7	6528.7	6555.3	6602.9	6528.7	6255.7
15°	5403.0	5450.6	5519.2	5627.0	5821.7	6082.1	6318.7	6362.1	6455.9	6418.1	6098.9
17.5°	5124.4	5141.2	5188.8	5312.0	5522.0	5796.5	6112.9	6199.7	6349.5	6339.7	5964.5
20°	4904.6	4925.6	4955.0	5030.6	5249.0	5538.8	5921.1	6033.1	6236.1	6269.7	5831.5
22.5°	4812.2	4827.6	4823.4	4864.0	5012.4	5303.6	5726.5	5859.5	6135.3	6222.1	5708.3
25°	4817.8	4831.8	4810.8	4801.0	4889.2	5096.4	5523.4	5692.9	6054.1	6189.9	5596.2
27.5°	4911.6	4921.4	4882.2	4843.0	4850.0	4967.6	5355.4	5543.0	5985.5	6203.9	5502.4
30°	5037.6	5055.8	5030.6	4983.0	4931.2	4936.8	5247.6	5432.4	5953.3	6252.9	5457.6
32.5°	5200.0	5216.8	5205.6	5167.8	5100.6	5026.4	5221.0	5391.8	5956.1	6352.3	5447.8
35°	5370.8	5404.4	5422.6	5419.8	5365.2	5236.4	5326.0	5467.4	6023.3	6518.9	5505.2
37.5°	5564.0	5592.0	5670.5	5720.9	5670.5	5520.6	5562.6	5660.7	6171.7	6759.7	5631.2
40°	5751.7	5793.7	5908.5	6065.3	6045.7	5914.1	5923.9	5988.3	6433.5	7118.2	5877.7
42.5°	5947.7	5998.1	6198.3	6430.7	6476.9	6374.7	6401.3	6458.7	6805.9	7615.2	6300.5
45°	6199.7	6259.9	6506.3	6796.1	6978.2	6915.2	6990.8	7018.8	7304.4	8262.1	6857.7
47.5°	6524.5	6594.5	6898.3	7259.6	7517.2	7574.6	7706.2	7689.4	7921.8	9027.9	7580.2
50°	7072.0	7111.2	7398.2	7766.4	8120.6	8379.7	8522.5	8549.1	8687.7	9772.8	8388.1
52.5°	7723.0	7758.0	7965.2	8287.3	8731.1	9279.9	9632.8	9546.0	9579.6	10680.1	9333.1
55°	8455.3	8514.1	8645.7	8859.9	9435.4	10243.2	10951.7	10972.7	10600.2	11548.1	10239.0
57.5°	9022.3	9121.7	9347.1	9652.4	10381.8	11314.3	12266.4	12280.4	11804.3	12475.0	11238.7
60°	8736.7	8854.3	9369.5	10113.0	11623.7	13183.4	13837.3	13757.5	12976.2	13530.7	12458.2
62.5°	7504.6	7525.6	8274.7	9436.8	12006.0	15684.0	16175.5	15838.1	14540.2	14869.2	13697.3
65°	4857.0	4994.2	5587.8	7216.2	10750.1	17071.6	20272.2	19492.4	16732.7	16388.3	14734.8
67.5°	3066.2	3031.2	3277.7	4120.5	7394.0	15849.3	23768.3	23645.1	19600.2	17347.4	14487.0
69°	2542.6	2581.8	2665.8	3158.7	5088.0	13532.1	24181.3	25032.6	20990.5	17271.8	13586.7
70°	2306.0	2324.2	2412.4	2800.2	3925.9	11333.9	23503.7	24994.8	21536.5	16955.3	12934.2
72.5°	1829.9	1828.5	1979.8	2329.8	2934.6	6469.9	19299.1	21700.3	20926.1	15482.4	10687.1
75°	1390.3	1412.7	1579.3	1971.4	2703.6	3535.3	13467.7	16711.7	16713.1	12228.6	6668.7
77.5°	1002.5	1016.5	1211.1	1654.9	2546.8	2866.0	8970.5	11986.4	11268.1	5603.2	2096.0
80°	656.7	665.1	813.5	1310.5	2296.2	2703.6	5319.0	7336.6	5314.8	1486.9	693.1
82.5°	359.8	401.8	497.0	848.5	1842.5	2497.8	3232.9	3713.1	1993.8	662.3	361.2
85°	180.6	191.8	280.0	495.6	1204.1	2066.6	2251.4	2129.6	1029.1	329.0	187.6
87.5°	53.2	67.2	116.2	191.8	488.6	1076.7	1253.1	1124.3	396.2	119.0	39.2
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°	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6	6937.6
2.5°	6880.1	6854.9	6742.9	6642.1	6549.7	6451.7	6369.1	6296.3	6303.3	6304.7	6230.5
5°	6723.3	6665.9	6453.1	6254.3	6086.3	5873.5	5691.5	5573.8	5515.0	5436.6	5464.6
7.5°	6510.5	6399.9	6104.5	5774.1	5464.6	5188.8	4889.2	4683.4	4551.8	4424.4	4441.2
10°	6290.7	6112.9	5683.1	5246.2	4845.8	4404.8	4022.5	3694.9	3451.3	3360.3	3300.1
12.5°	6065.3	5831.5	5285.4	4704.4	4151.3	3623.5	3081.6	2730.2	2461.4	2318.6	2336.8
15°	5859.5	5575.2	4871.0	4162.5	3444.3	2815.6	2275.2	1940.6	1752.9	1713.7	1736.1
17.5°	5669.1	5296.6	4483.2	3636.1	2797.4	2111.4	1709.5	1520.5	1444.9	1423.9	1422.5
20°	5473.0	5060.0	4047.7	3073.2	2180.0	1636.7	1402.9	1314.7	1300.7	1309.1	1310.5
22.5°	5274.2	4767.4	3599.7	2514.6	1736.1	1338.5	1226.5	1202.7	1213.9	1233.5	1236.3
25°	5090.8	4509.8	3168.5	2024.6	1386.1	1176.1	1121.5	1121.5	1146.7	1176.1	1177.5
27.5°	4939.6	4260.5	2738.6	1607.3	1160.7	1058.5	1040.3	1050.1	1085.1	1107.5	1108.9
30°	4815.0	4028.1	2332.6	1288.1	1020.7	964.7	960.5	977.3	1002.5	1023.5	1024.9
32.5°	4721.2	3823.7	1953.2	1082.3	924.1	893.3	891.9	904.5	918.5	924.1	929.7
35°	4684.8	3654.3	1605.9	952.1	859.7	840.1	840.1	838.7	844.3	847.1	849.9
37.5°	4714.2	3524.1	1337.1	868.1	812.1	798.1	789.7	781.3	778.5	778.5	779.9
40°	4838.8	3455.5	1136.9	813.5	778.5	757.5	742.1	732.3	722.5	725.3	728.1
42.5°	5103.4	3468.1	1001.1	777.1	749.1	719.7	697.3	686.1	679.1	687.5	686.1
45°	5524.8	3594.1	914.3	751.9	719.7	681.9	660.9	649.7	649.7	662.3	666.5
47.5°	6114.3	3834.9	868.1	732.3	697.3	652.5	631.5	623.0	625.8	646.9	648.3
50°	6833.9	4253.5	859.7	722.5	686.1	631.5	607.6	599.2	606.2	628.7	631.5
52.5°	7627.8	4792.6	900.3	723.9	676.3	618.8	588.0	575.4	582.4	600.6	606.2
55°	8568.7	5467.4	1005.3	729.5	662.3	611.8	574.0	546.0	554.4	567.0	568.4
57.5°	9529.2	6318.7	1190.1	730.9	651.1	599.2	550.2	513.8	513.8	522.2	526.4
60°	10702.5	7245.6	1433.7	732.3	652.5	581.0	518.0	477.4	471.8	476.0	477.4
62.5°	11867.3	8021.2	1474.3	728.1	666.5	562.8	483.0	441.0	431.2	429.8	427.0
65°	12381.2	7877.0	1208.3	708.5	681.9	551.6	455.0	406.0	389.2	383.6	383.6
67.5°	11543.9	6663.1	908.7	681.9	672.1	540.4	428.4	376.6	357.0	345.8	345.8
69°	10757.1	5926.7	816.3	663.7	646.9	522.2	411.6	361.2	337.4	324.8	320.6
70°	10149.4	5419.8	777.1	648.3	623.0	501.2	399.0	350.0	323.4	309.4	306.6
72.5°	8099.6	4252.1	680.5	589.4	530.6	421.4	354.2	315.0	289.8	274.4	270.2
75°	4668.0	2304.6	564.2	512.4	427.0	327.6	299.6	274.4	254.8	240.8	236.6
77.5°	1436.5	890.5	408.8	404.6	313.6	253.4	239.4	229.6	215.6	200.2	197.4
80°	604.8	453.6	277.2	273.0	208.6	176.4	172.2	170.8	165.2	152.6	148.4
82.5°	331.8	256.2	193.2	168.0	126.0	102.2	106.4	107.8	103.6	91.0	82.6
85°	162.4	140.0	93.8	75.6	57.4	36.4	35.0	42.0	39.2	28.0	30.8
87.5°	32.2	39.2	25.2	11.2	5.6	0.0	0.0	0.0	0.0	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)