

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: P453478

Luminaire Tested: **GALN-SA4C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24793 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

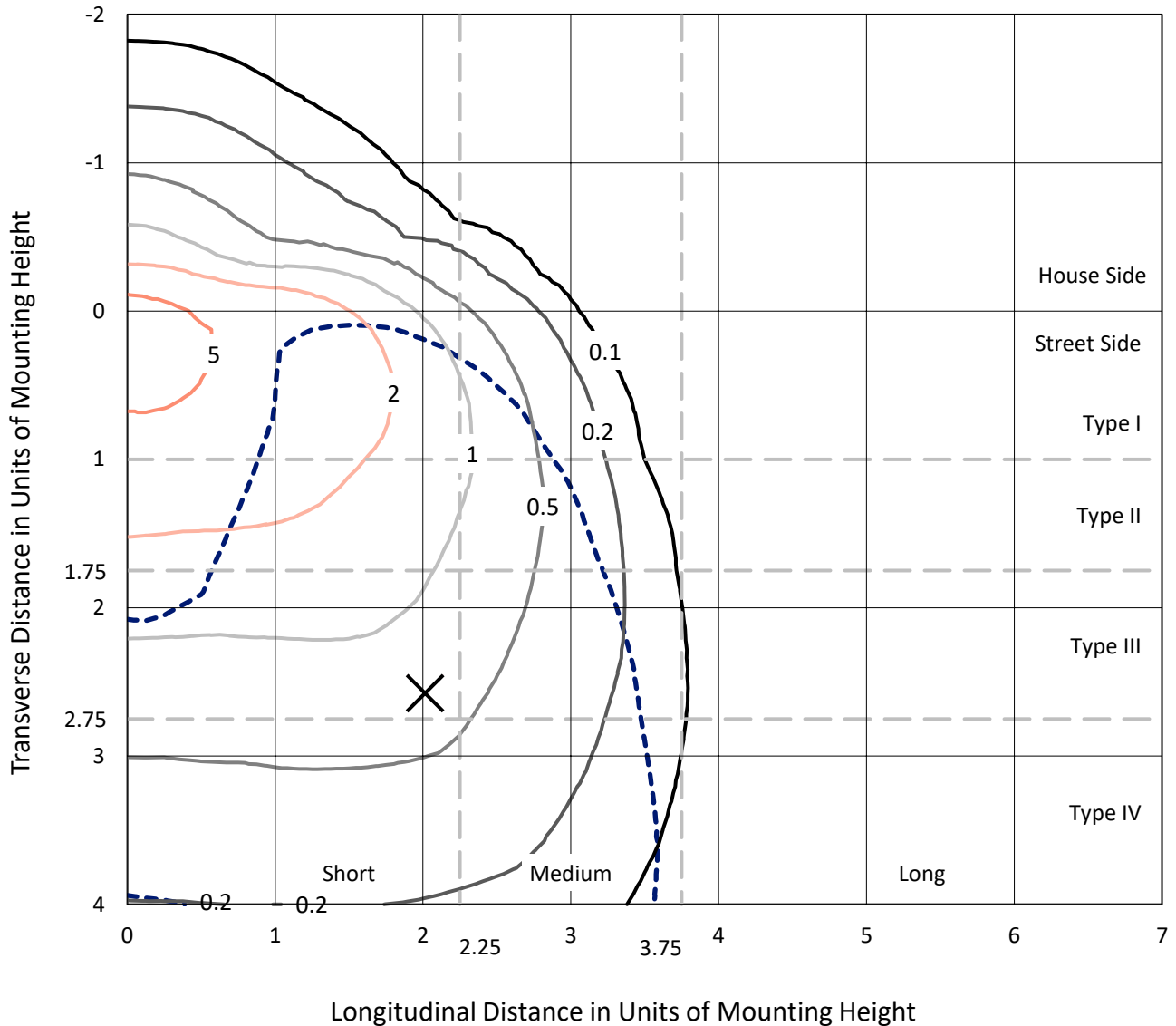




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Iso-Footcandle Lines of Horizontal Illumination

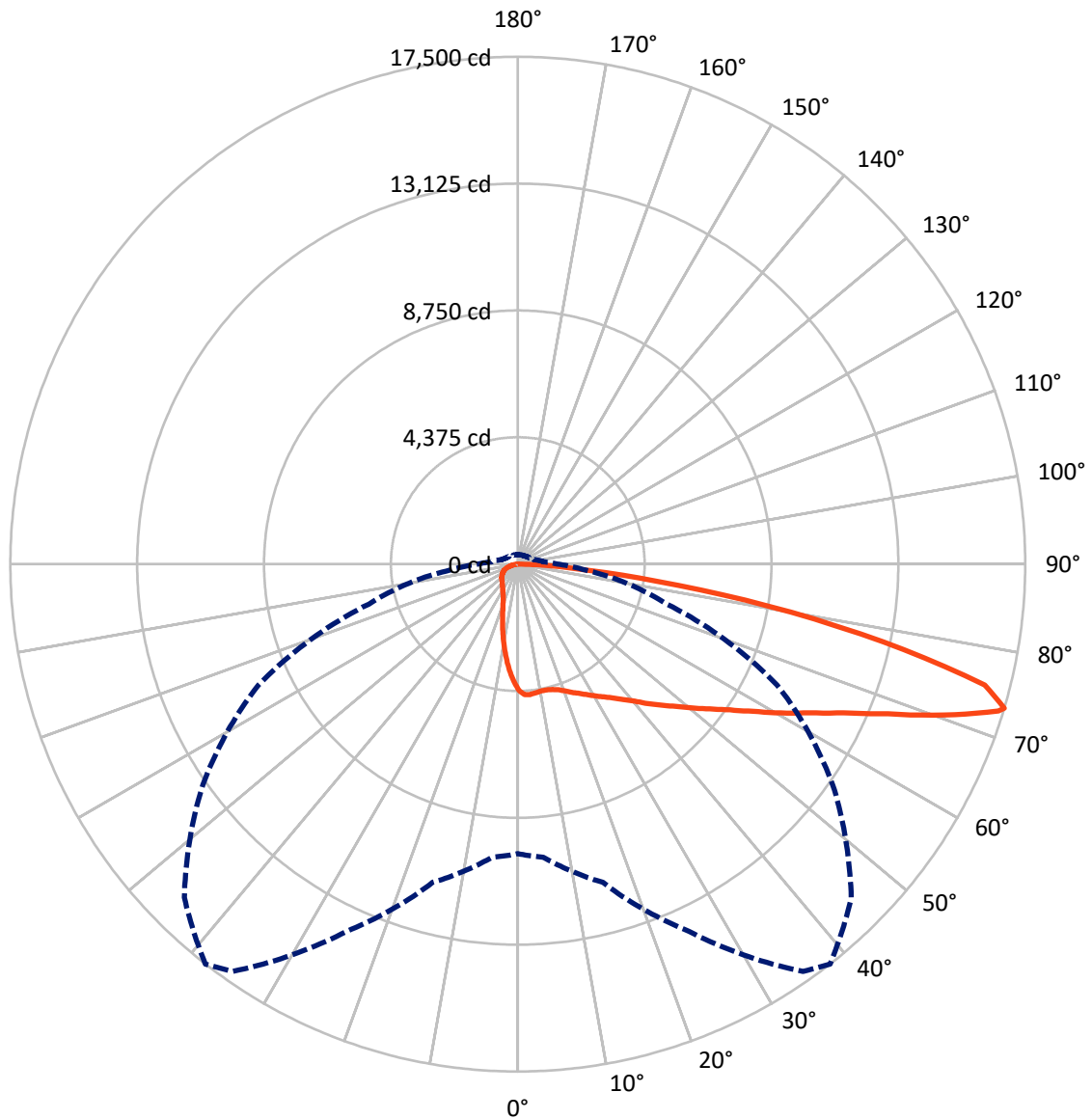
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3332.9	0.0	3332.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21460.1	0.0	21460.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	24793.0	0.0	24793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	1.5
10°-20°	975.0	3.9
20°-30°	1518.2	6.1
30°-40°	2226.9	9.0
40°-50°	3303.3	13.3
50°-60°	4680.1	18.9
60°-70°	5936.9	23.9
70°-80°	4942.0	19.9
80°-90°	830.3	3.3
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°	24793.0	100.0
0°-180°	24793.0	100.0

Coefficient of Utilization



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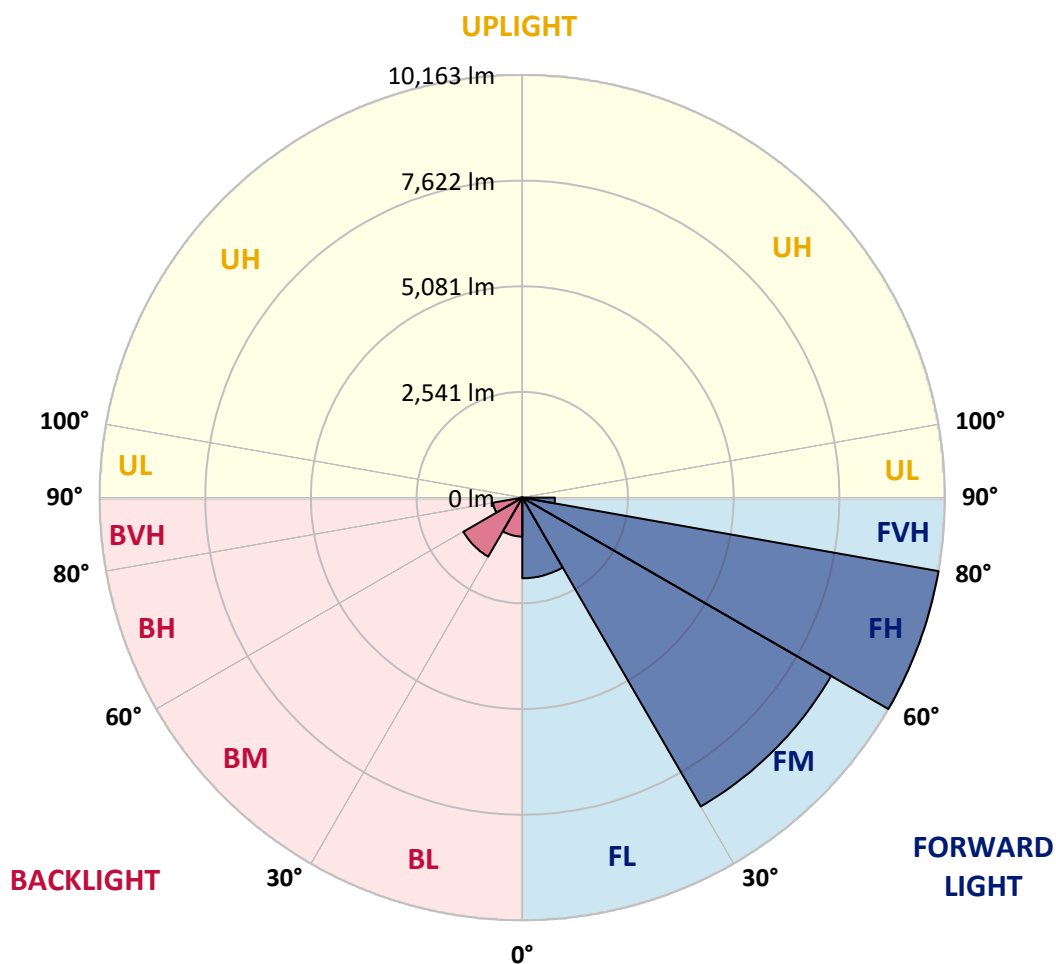
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1938.1	7.8			
FM	(30°-60°)	8574.1	34.6			
FH	(60°-80°)	10162.5	41.0			G4/12000
FVH	(80°-90°)	785.3	3.2			G5
BL	(0°-30°)	935.3	3.8	B2/1000		
BM	(30°-60°)	1636.3	6.6	B2/2500		
BH	(60°-80°)	716.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	45.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7
2.5°	4530.7	4553.1	4541.9	4526.5	4516.7	4506.9	4492.9	4452.3	4420.1	4385.1	4330.5
5°	4564.3	4578.3	4568.5	4548.9	4526.5	4516.7	4490.1	4436.9	4385.1	4326.3	4245.1
7.5°	4544.7	4550.3	4539.1	4515.3	4495.7	4477.5	4446.7	4387.9	4324.9	4253.5	4147.1
10°	4474.7	4495.7	4495.7	4476.1	4456.5	4446.7	4415.9	4359.9	4302.5	4221.3	4095.3
12.5°	4417.3	4439.7	4457.9	4452.3	4450.9	4450.9	4427.1	4385.1	4317.9	4240.9	4091.1
15°	4378.1	4404.7	4443.9	4466.3	4480.3	4484.5	4474.7	4438.3	4369.7	4280.1	4107.9
17.5°	4369.7	4401.9	4473.3	4522.3	4558.7	4557.3	4554.5	4504.1	4428.5	4336.1	4128.9
20°	4407.5	4449.5	4548.9	4625.9	4679.1	4669.3	4653.9	4588.1	4499.9	4396.3	4148.5
22.5°	4520.9	4564.3	4673.5	4757.5	4809.3	4809.3	4763.1	4676.3	4582.5	4466.3	4175.1
25°	4683.3	4730.9	4847.1	4932.6	4956.4	4938.2	4891.9	4786.9	4679.1	4567.1	4231.1
27.5°	4882.1	4939.6	5047.4	5118.8	5111.8	5097.8	5050.2	4915.7	4807.9	4705.7	4326.3
30°	5130.0	5172.0	5284.0	5300.8	5275.6	5272.8	5205.6	5071.2	4970.4	4891.9	4462.1
32.5°	5363.8	5401.6	5491.2	5498.2	5453.4	5459.0	5396.0	5272.8	5215.4	5187.4	4690.3
35°	5611.6	5631.2	5708.2	5699.8	5670.4	5666.2	5641.0	5523.4	5541.6	5592.0	5013.8
37.5°	5818.8	5858.0	5901.4	5908.4	5907.0	5921.0	5937.8	5881.8	5986.8	6145.0	5438.0
40°	6009.2	6042.8	6107.2	6129.6	6184.2	6212.2	6269.6	6271.0	6513.3	6773.7	5960.2
42.5°	6138.0	6195.4	6315.8	6356.5	6489.5	6573.5	6658.9	6749.9	7101.3	7435.9	6576.3
45°	6250.0	6325.7	6525.9	6651.9	6832.5	6934.7	7115.3	7305.7	7811.2	8249.4	7202.1
47.5°	6419.5	6486.7	6716.3	6938.9	7211.9	7329.5	7599.7	7884.0	8544.8	9025.0	7801.4
50°	6654.7	6695.3	6929.1	7291.7	7640.3	7791.6	8148.6	8558.8	9328.9	9790.9	8327.8
52.5°	6955.7	6972.5	7158.7	7641.7	8101.0	8288.6	8761.8	9240.7	10014.9	10455.9	8745.0
55°	7311.3	7283.3	7428.9	8012.8	8627.4	8872.4	9380.7	9930.9	10786.4	10993.6	9048.8
57.5°	7662.7	7619.3	7735.6	8463.6	9277.1	9572.5	10164.7	10642.2	11475.2	11496.2	9261.7
60°	8035.2	8003.0	8141.6	8992.8	10073.7	10423.7	10971.2	11380.0	12141.7	11846.2	9295.3
62.5°	8417.4	8365.6	8563.0	9587.9	10971.2	11289.0	11819.6	12164.1	12795.5	11976.5	8971.8
65°	8788.4	8764.6	9069.8	10294.9	11993.3	12354.5	12869.7	13103.5	13319.1	11780.4	8169.6
67.5°	9183.3	9230.9	9718.1	11238.6	13326.1	13779.8	14335.6	14115.8	13469.0	10852.2	6880.1
70°	9785.3	9816.1	10569.4	12474.9	15044.1	15591.5	15860.3	14475.6	12746.5	9089.4	5172.0
72.5°	10044.3	10180.1	11329.6	13772.8	16995.8	17330.4	16372.8	13673.4	10618.4	6174.4	2717.6
73°	9986.9	10149.3	11364.6	13970.2	17148.4	17499.8	16263.6	13260.3	9870.7	5317.6	2329.8
75°	9271.5	9471.7	10909.6	13805.0	16851.6	16641.6	14507.8	11301.6	6670.1	2418.0	1061.3
77.5°	7315.5	7372.9	8644.2	11147.6	13270.1	12880.9	10857.8	7063.5	2724.6	898.9	602.0
80°	3669.7	3881.1	4872.3	6385.9	8873.8	8746.4	6853.5	3340.6	1135.5	527.8	399.0
82.5°	1765.5	1915.3	2373.2	3113.8	4903.1	4786.9	3393.8	1825.7	721.1	308.0	235.2
85°	1136.9	1248.9	1510.7	1485.5	2016.1	1925.1	1524.7	1381.9	427.0	161.0	163.8
87.5°	750.5	821.9	985.7	788.3	733.7	663.6	673.4	778.5	84.0	61.6	22.4
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°	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7	4355.7
2.5°	4308.1	4289.9	4229.7	4170.9	4114.9	4061.7	4026.7	3980.5	3949.7	3958.1	3970.7
5°	4200.3	4159.7	4053.3	3949.7	3851.7	3735.5	3641.7	3566.1	3508.6	3487.6	3483.4
7.5°	4086.9	4018.3	3865.7	3687.9	3521.3	3377.0	3210.4	3127.8	3031.2	2997.6	2986.4
10°	4018.3	3925.9	3711.7	3463.8	3213.2	2973.8	2793.2	2646.2	2513.2	2488.0	2475.4
12.5°	3998.7	3876.9	3588.5	3269.2	2936.0	2642.0	2374.6	2181.4	2052.5	2023.1	1979.7
15°	3987.5	3836.3	3473.6	3073.2	2650.4	2292.0	2010.5	1785.1	1667.5	1589.1	1590.5
17.5°	3977.7	3790.1	3344.8	2859.0	2404.0	1990.9	1680.1	1477.1	1369.3	1327.3	1323.1
20°	3963.7	3735.5	3196.4	2633.6	2122.6	1716.5	1435.1	1283.9	1211.1	1176.1	1174.7
22.5°	3958.1	3682.3	3050.8	2404.0	1873.3	1505.1	1272.7	1166.3	1120.1	1096.3	1096.3
25°	3972.1	3644.5	2898.2	2185.6	1652.1	1324.5	1160.7	1087.9	1061.3	1048.7	1044.5
27.5°	4015.5	3627.7	2747.0	1967.1	1449.1	1201.3	1085.1	1034.7	1015.1	1005.3	1006.7
30°	4098.1	3626.3	2598.6	1751.5	1297.9	1107.5	1024.9	989.9	974.5	968.9	967.5
32.5°	4231.1	3657.1	2453.0	1573.7	1170.5	1029.1	968.9	943.7	936.7	932.5	931.1
35°	4456.5	3743.9	2308.8	1411.3	1072.5	959.1	915.7	903.1	893.3	897.5	898.9
37.5°	4760.3	3893.7	2171.6	1283.9	998.3	907.3	870.9	859.7	854.1	858.3	862.5
40°	5167.8	4109.3	2056.7	1181.7	945.1	863.9	831.7	821.9	816.3	823.3	824.7
42.5°	5617.2	4358.5	1961.5	1101.9	901.7	827.5	796.7	785.5	781.3	785.5	786.9
45°	6079.2	4648.3	1912.5	1044.5	865.3	800.9	768.7	756.1	746.3	743.5	747.7
47.5°	6534.3	4900.3	1911.1	1009.5	835.9	777.1	742.1	728.1	715.5	708.5	707.1
50°	6905.3	5100.6	1944.7	994.1	810.7	750.5	715.5	701.4	684.6	670.6	673.4
52.5°	7185.3	5230.8	1960.1	987.1	796.7	722.5	687.4	674.8	655.2	637.0	637.0
55°	7365.9	5261.6	1922.3	980.1	785.5	693.0	655.2	644.0	624.4	606.2	606.2
57.5°	7427.5	5166.4	1786.5	963.3	774.3	667.8	623.0	613.2	597.8	579.6	576.8
60°	7284.7	4844.3	1548.5	912.9	751.9	641.2	588.0	583.8	578.2	562.8	561.4
62.5°	6734.5	4161.1	1289.5	847.1	714.1	613.2	555.8	562.8	567.0	558.6	557.2
65°	5818.8	3378.4	1101.9	756.1	663.6	574.0	520.8	539.0	550.2	550.2	547.4
67.5°	4719.7	2594.4	928.3	677.6	600.6	520.8	481.6	495.6	504.0	501.2	508.2
70°	3354.6	1757.1	756.1	588.0	520.8	460.6	431.2	431.2	425.6	422.8	422.8
72.5°	1626.9	1003.9	613.2	491.4	443.8	393.4	369.6	359.8	348.6	347.2	340.2
73°	1359.5	900.3	585.2	473.2	425.6	383.6	357.0	341.6	334.6	329.0	327.6
75°	827.5	683.2	488.6	399.0	362.6	330.4	306.6	292.6	285.6	281.4	280.0
77.5°	544.6	509.6	379.4	305.2	277.2	257.6	247.8	233.8	229.6	224.0	224.0
80°	406.0	389.2	271.6	215.6	198.8	182.0	179.2	176.4	165.2	158.2	155.4
82.5°	261.8	277.2	184.8	144.2	126.0	112.0	113.4	117.6	106.4	96.6	93.8
85°	186.2	200.2	112.0	65.8	53.2	46.2	51.8	46.2	47.6	37.8	30.8
87.5°	30.8	53.2	19.6	8.4	4.2	2.8	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)