

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: P453070

Luminaire Tested: **GALN-SA4A-750-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453070
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-SA4A-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA 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: 17931 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

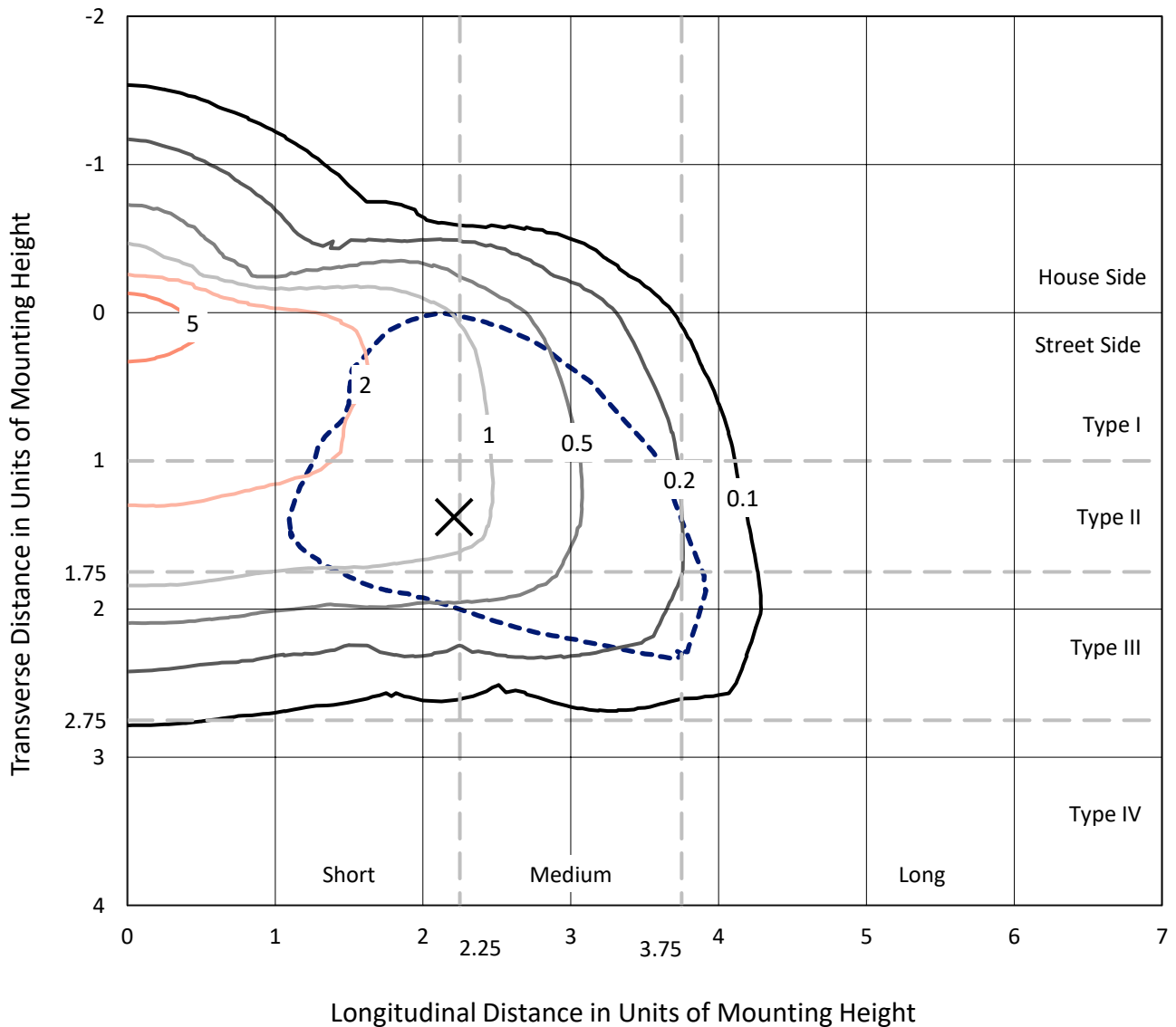
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

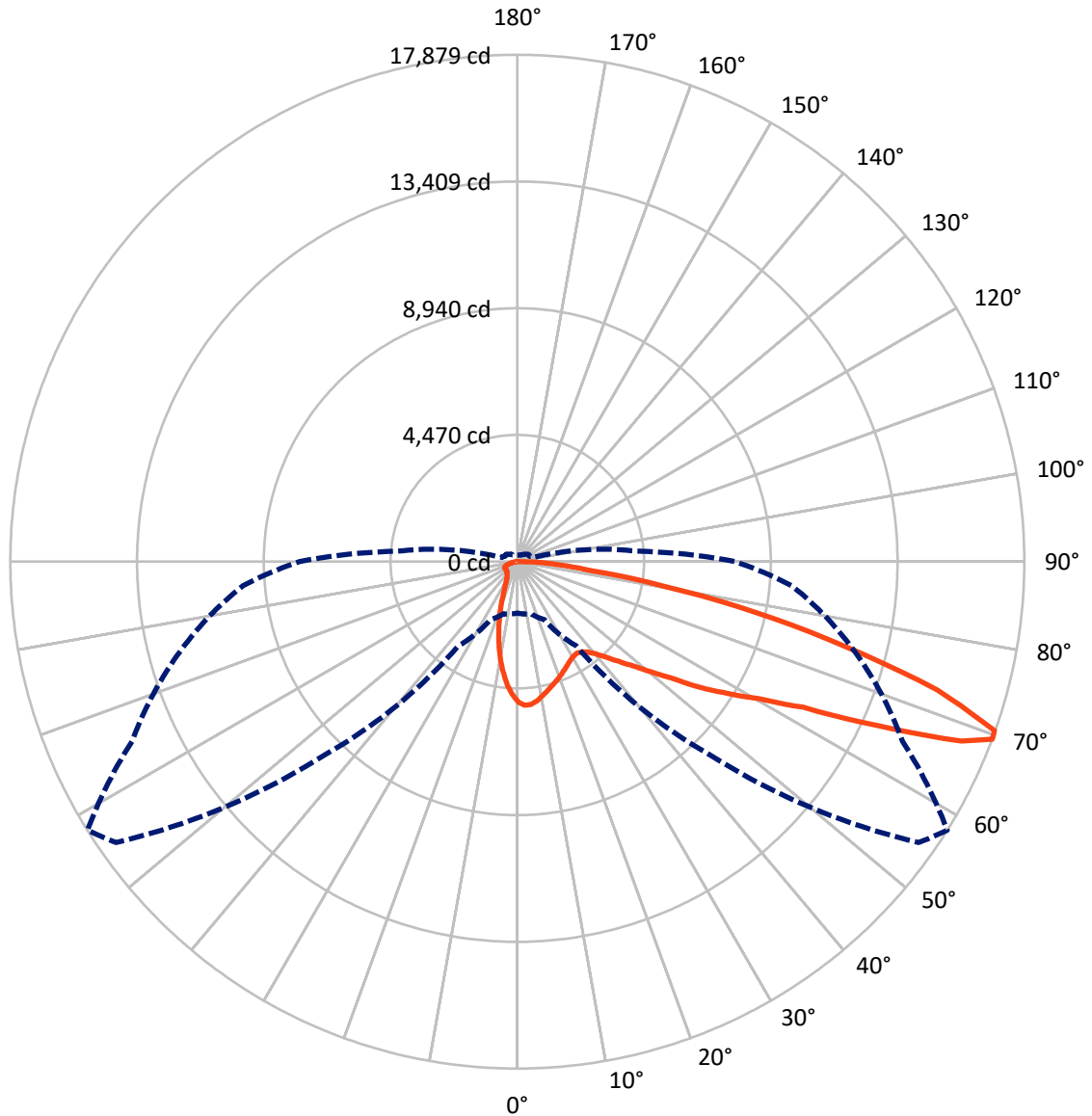
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	2627.8	0.0	2627.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15303.2	0.0	15303.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	17931.0	0.0	17931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.8	2.3
10°-20°	924.0	5.2
20°-30°	1193.8	6.7
30°-40°	1550.6	8.6
40°-50°	2254.3	12.6
50°-60°	3597.1	20.1
60°-70°	4805.3	26.8
70°-80°	2770.1	15.4
80°-90°	414.9	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°	17931.0	100.0
0°-180°	17931.0	100.0

Coefficient of Utilization



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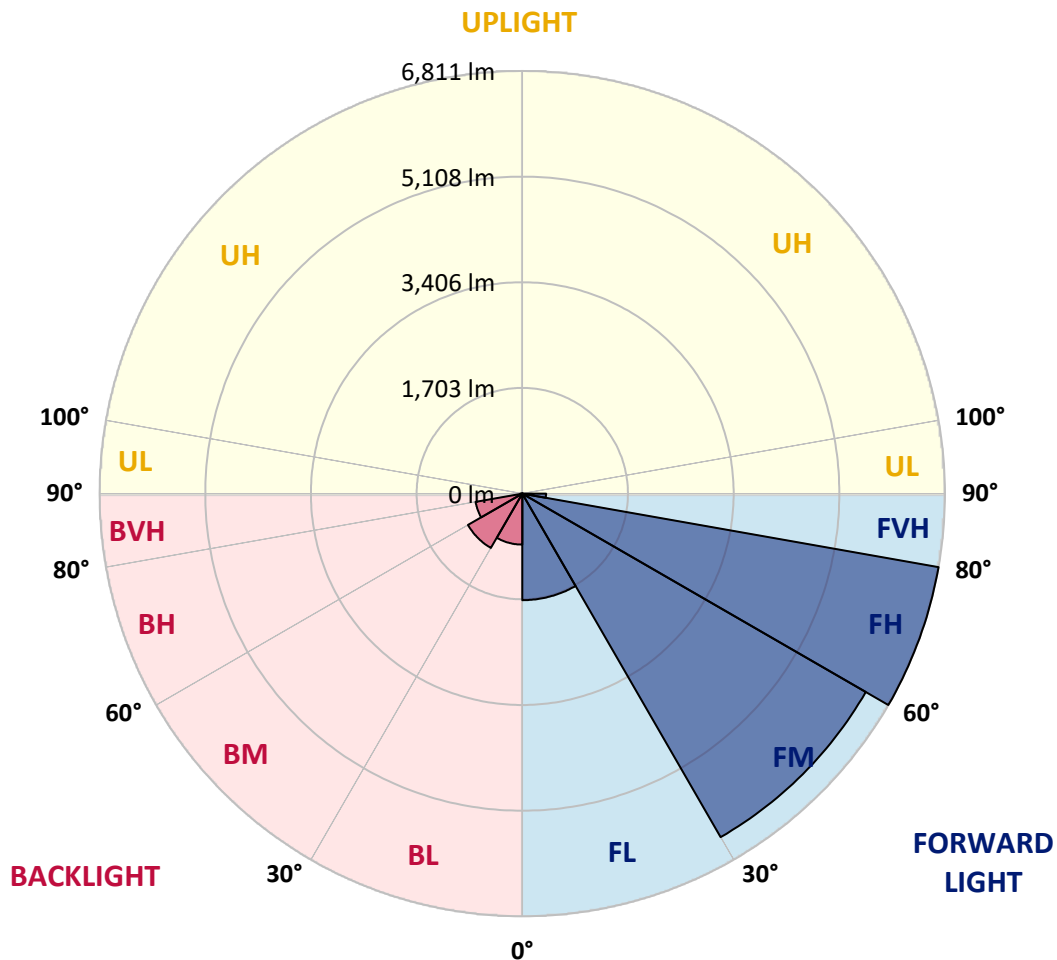
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1717.3	9.6			
FM	(30°-60°)	6391.5	35.6			
FH	(60°-80°)	6811.3	38.0			G3/7500
FVH	(80°-90°)	383.1	2.1			G3/500
BL	(0°-30°)	821.3	4.6	B2/1000		
BM	(30°-60°)	1010.5	5.6	B2/2500		
BH	(60°-80°)	764.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	31.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1
2.5°	5139.1	5153.1	5149.1	5144.1	5136.1	5114.1	5078.1	5072.1	5049.1	5000.1	4939.1
5°	5060.1	5072.1	5073.1	5080.1	5090.1	5086.1	5060.1	5057.1	5023.1	4957.1	4855.1
7.5°	4789.1	4805.1	4840.1	4879.1	4914.1	4947.1	4955.1	4960.1	4939.1	4863.1	4727.1
10°	4484.1	4500.1	4516.1	4574.1	4660.1	4742.1	4810.1	4819.1	4824.1	4754.1	4588.1
12.5°	4146.1	4179.1	4213.1	4299.1	4414.1	4543.1	4663.1	4682.1	4716.1	4663.1	4468.1
15°	3859.1	3893.1	3942.1	4019.1	4158.1	4344.1	4513.1	4544.1	4611.1	4584.1	4356.1
17.5°	3660.1	3672.1	3706.1	3794.1	3944.1	4140.1	4366.1	4428.1	4535.1	4528.1	4260.1
20°	3503.1	3518.1	3539.1	3593.1	3749.1	3956.1	4229.1	4309.1	4454.1	4478.1	4165.1
22.5°	3437.1	3448.1	3445.1	3474.1	3580.1	3788.1	4090.1	4185.1	4382.1	4444.1	4077.1
25°	3441.1	3451.1	3436.1	3429.1	3492.1	3640.1	3945.1	4066.1	4324.1	4421.1	3997.1
27.5°	3508.1	3515.1	3487.1	3459.1	3464.1	3548.1	3825.1	3959.1	4275.1	4431.1	3930.1
30°	3598.1	3611.1	3593.1	3559.1	3522.1	3526.1	3748.1	3880.1	4252.1	4466.1	3898.1
32.5°	3714.1	3726.1	3718.1	3691.1	3643.1	3590.1	3729.1	3851.1	4254.1	4537.1	3891.1
35°	3836.1	3860.1	3873.1	3871.1	3832.1	3740.1	3804.1	3905.1	4302.1	4656.1	3932.1
37.5°	3974.1	3994.1	4050.1	4086.1	4050.1	3943.1	3973.1	4043.1	4408.1	4828.1	4022.1
40°	4108.1	4138.1	4220.1	4332.1	4318.1	4224.1	4231.1	4277.1	4595.1	5084.1	4198.1
42.5°	4248.1	4284.1	4427.1	4593.1	4626.1	4553.1	4572.1	4613.1	4861.1	5439.1	4500.1
45°	4428.1	4471.1	4647.1	4854.1	4984.1	4939.1	4993.1	5013.1	5217.1	5901.1	4898.1
47.5°	4660.1	4710.1	4927.1	5185.1	5369.1	5410.1	5504.1	5492.1	5658.1	6448.1	5414.1
50°	5051.1	5079.1	5284.1	5547.1	5800.1	5985.1	6087.1	6106.1	6205.1	6980.1	5991.1
52.5°	5516.1	5541.1	5689.1	5919.1	6236.1	6628.1	6880.1	6818.1	6842.1	7628.1	6666.1
55°	6039.1	6081.1	6175.1	6328.1	6739.1	7316.1	7822.1	7837.1	7571.1	8248.1	7313.1
57.5°	6444.1	6515.1	6676.1	6894.1	7415.1	8081.1	8761.1	8771.1	8431.1	8910.1	8027.1
60°	6240.1	6324.1	6692.1	7223.1	8302.1	9416.1	9883.2	9826.2	9268.1	9664.2	8898.1
62.5°	5360.1	5375.1	5910.1	6740.1	8575.1	11202.2	11553.2	11312.2	10385.2	10620.2	9783.2
65°	3469.1	3567.1	3991.1	5154.1	7678.1	12193.2	14479.2	13922.2	11951.2	11705.2	10524.2
67.5°	2190.0	2165.0	2341.0	2943.0	5281.1	11320.2	16976.3	16888.3	13999.2	12390.2	10347.2
69°	1816.0	1844.0	1904.0	2256.0	3634.1	9665.2	17271.3	17879.3	14992.2	12336.2	9704.2
70°	1647.0	1660.0	1723.0	2000.0	2804.0	8095.1	16787.3	17852.3	15382.2	12110.2	9238.1
72.5°	1307.0	1306.0	1414.0	1664.0	2096.0	4621.1	13784.2	15499.2	14946.2	11058.2	7633.1
75°	993.0	1009.0	1128.0	1408.0	1931.0	2525.0	9619.2	11936.2	11937.2	8734.1	4763.1
77.5°	716.0	726.0	865.0	1182.0	1819.0	2047.0	6407.1	8561.1	8048.1	4002.1	1497.0
80°	469.0	475.0	581.0	936.0	1640.0	1931.0	3799.1	5240.1	3796.1	1062.0	495.0
82.5°	257.0	287.0	355.0	606.0	1316.0	1784.0	2309.0	2652.0	1424.0	473.0	258.0
85°	129.0	137.0	200.0	354.0	860.0	1476.0	1608.0	1521.0	735.0	235.0	134.0
87.5°	38.0	48.0	83.0	137.0	349.0	769.0	895.0	803.0	283.0	85.0	28.0
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°	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1	4955.1
2.5°	4914.1	4896.1	4816.1	4744.1	4678.1	4608.1	4549.1	4497.1	4502.1	4503.1	4450.1
5°	4802.1	4761.1	4609.1	4467.1	4347.1	4195.1	4065.1	3981.1	3939.1	3883.1	3903.1
7.5°	4650.1	4571.1	4360.1	4124.1	3903.1	3706.1	3492.1	3345.1	3251.1	3160.1	3172.1
10°	4493.1	4366.1	4059.1	3747.1	3461.1	3146.0	2873.0	2639.0	2465.0	2400.0	2357.0
12.5°	4332.1	4165.1	3775.1	3360.1	2965.0	2588.0	2201.0	1950.0	1758.0	1656.0	1669.0
15°	4185.1	3982.1	3479.1	2973.0	2460.0	2011.0	1625.0	1386.0	1252.0	1224.0	1240.0
17.5°	4049.1	3783.1	3202.1	2597.0	1998.0	1508.0	1221.0	1086.0	1032.0	1017.0	1016.0
20°	3909.1	3614.1	2891.0	2195.0	1557.0	1169.0	1002.0	939.0	929.0	935.0	936.0
22.5°	3767.1	3405.1	2571.0	1796.0	1240.0	956.0	876.0	859.0	867.0	881.0	883.0
25°	3636.1	3221.1	2263.0	1446.0	990.0	840.0	801.0	801.0	819.0	840.0	841.0
27.5°	3528.1	3043.0	1956.0	1148.0	829.0	756.0	743.0	750.0	775.0	791.0	792.0
30°	3439.1	2877.0	1666.0	920.0	729.0	689.0	686.0	698.0	716.0	731.0	732.0
32.5°	3372.1	2731.0	1395.0	773.0	660.0	638.0	637.0	646.0	656.0	660.0	664.0
35°	3346.1	2610.0	1147.0	680.0	614.0	600.0	600.0	599.0	603.0	605.0	607.0
37.5°	3367.1	2517.0	955.0	620.0	580.0	570.0	564.0	558.0	556.0	556.0	557.0
40°	3456.1	2468.0	812.0	581.0	556.0	541.0	530.0	523.0	516.0	518.0	520.0
42.5°	3645.1	2477.0	715.0	555.0	535.0	514.0	498.0	490.0	485.0	491.0	490.0
45°	3946.1	2567.0	653.0	537.0	514.0	487.0	472.0	464.0	464.0	473.0	476.0
47.5°	4367.1	2739.0	620.0	523.0	498.0	466.0	451.0	445.0	447.0	462.0	463.0
50°	4881.1	3038.0	614.0	516.0	490.0	451.0	434.0	428.0	433.0	449.0	451.0
52.5°	5448.1	3423.1	643.0	517.0	483.0	442.0	420.0	411.0	416.0	429.0	433.0
55°	6120.1	3905.1	718.0	521.0	473.0	437.0	410.0	390.0	396.0	405.0	406.0
57.5°	6806.1	4513.1	850.0	522.0	465.0	428.0	393.0	367.0	367.0	373.0	376.0
60°	7644.1	5175.1	1024.0	523.0	466.0	415.0	370.0	341.0	337.0	340.0	341.0
62.5°	8476.1	5729.1	1053.0	520.0	476.0	402.0	345.0	315.0	308.0	307.0	305.0
65°	8843.1	5626.1	863.0	506.0	487.0	394.0	325.0	290.0	278.0	274.0	274.0
67.5°	8245.1	4759.1	649.0	487.0	480.0	386.0	306.0	269.0	255.0	247.0	247.0
69°	7683.1	4233.1	583.0	474.0	462.0	373.0	294.0	258.0	241.0	232.0	229.0
70°	7249.1	3871.1	555.0	463.0	445.0	358.0	285.0	250.0	231.0	221.0	219.0
72.5°	5785.1	3037.0	486.0	421.0	379.0	301.0	253.0	225.0	207.0	196.0	193.0
75°	3334.1	1646.0	403.0	366.0	305.0	234.0	214.0	196.0	182.0	172.0	169.0
77.5°	1026.0	636.0	292.0	289.0	224.0	181.0	171.0	164.0	154.0	143.0	141.0
80°	432.0	324.0	198.0	195.0	149.0	126.0	123.0	122.0	118.0	109.0	106.0
82.5°	237.0	183.0	138.0	120.0	90.0	73.0	76.0	77.0	74.0	65.0	59.0
85°	116.0	100.0	67.0	54.0	41.0	26.0	25.0	30.0	28.0	20.0	22.0
87.5°	23.0	28.0	18.0	8.0	4.0	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)