

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: P452345

Luminaire Tested: **GALN-SA3B-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452345
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-SA3B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 16836 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

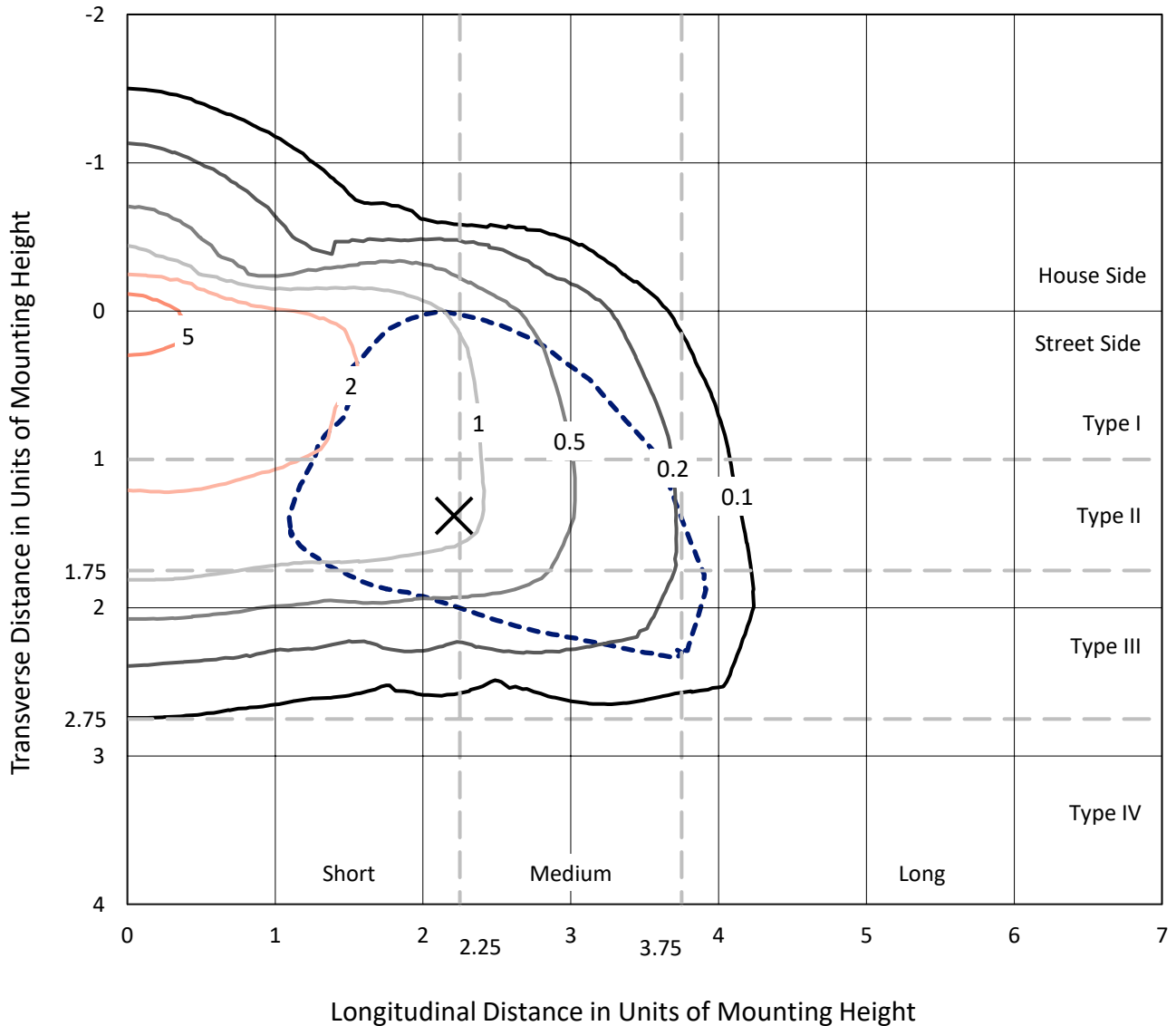
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

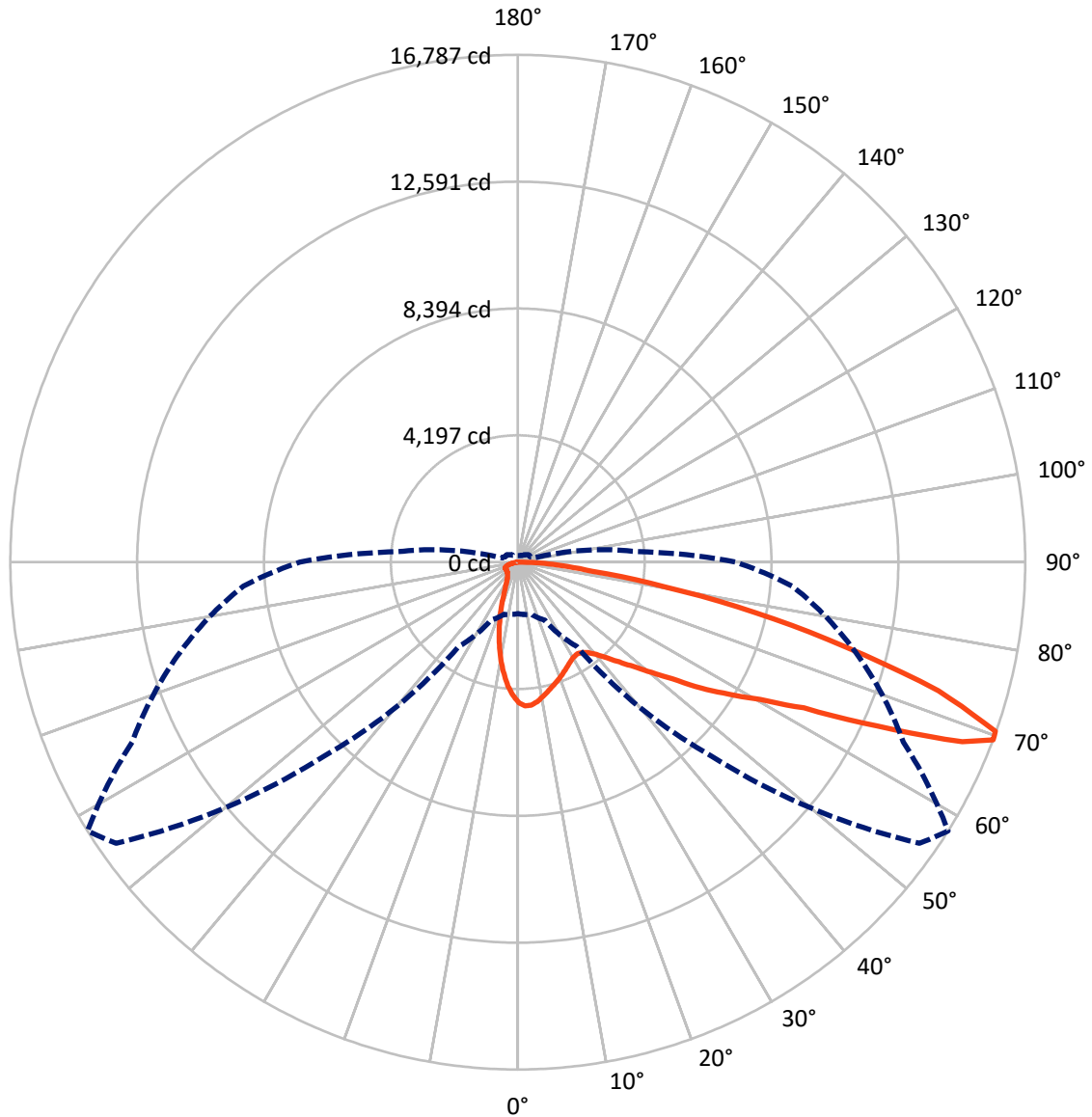
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	2467.3	0.0	2467.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14368.7	0.0	14368.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	16836.0	0.0	16836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.1	2.3
10°-20°	867.6	5.2
20°-30°	1120.9	6.7
30°-40°	1455.9	8.6
40°-50°	2116.6	12.6
50°-60°	3377.5	20.1
60°-70°	4511.9	26.8
70°-80°	2600.9	15.4
80°-90°	389.6	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°	16836.0	100.0
0°-180°	16836.0	100.0

Coefficient of Utilization



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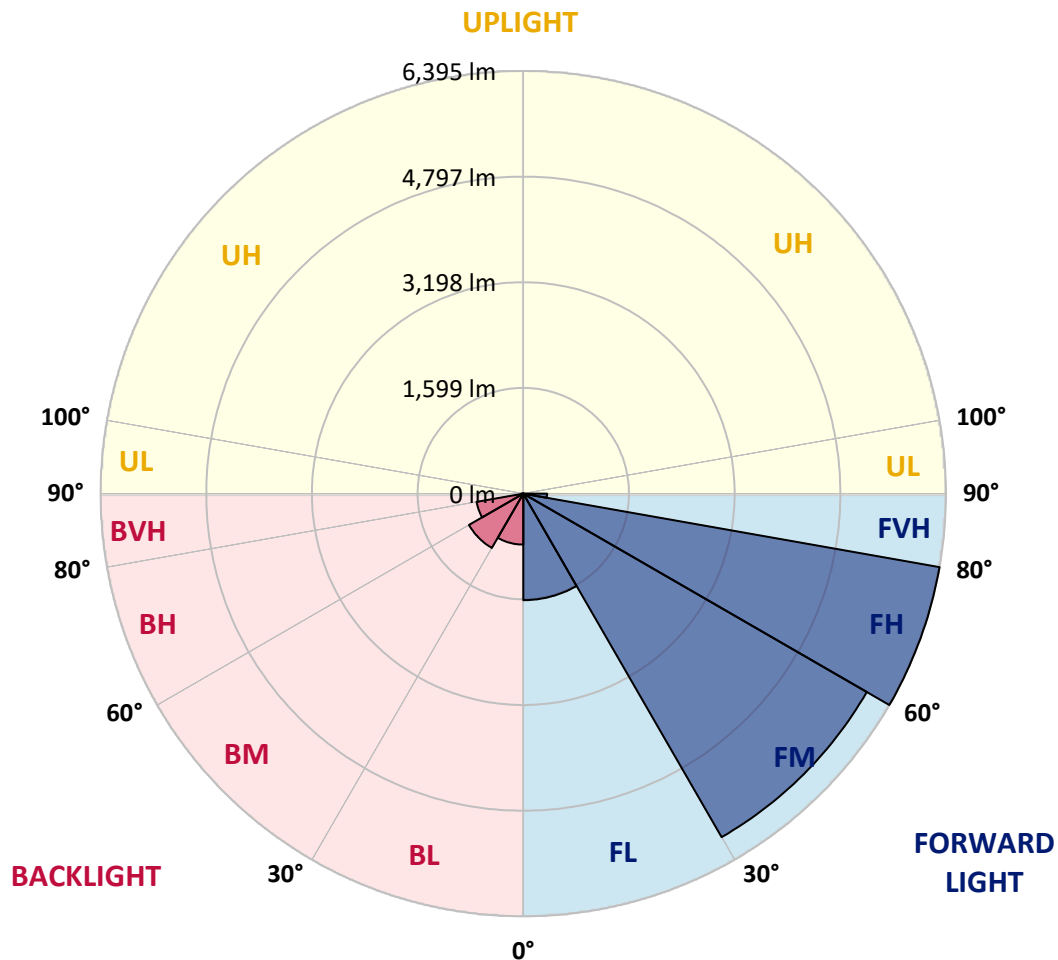
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1612.5	9.6			
FM	(30°-60°)	6001.2	35.6			
FH	(60°-80°)	6395.3	38.0			G3/7500
FVH	(80°-90°)	359.7	2.1			G3/500
BL	(0°-30°)	771.2	4.6	B2/1000		
BM	(30°-60°)	948.8	5.6	B1/1000		
BH	(60°-80°)	717.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.8	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°	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5
2.5°	4825.3	4838.4	4834.6	4829.9	4822.4	4801.8	4768.0	4762.3	4740.7	4694.7	4637.5
5°	4751.1	4762.3	4763.3	4769.9	4779.2	4775.5	4751.1	4748.3	4716.3	4654.4	4558.6
7.5°	4496.6	4511.6	4544.5	4581.1	4614.0	4645.0	4652.5	4657.2	4637.5	4566.1	4438.4
10°	4210.2	4225.3	4240.3	4294.7	4375.5	4452.5	4516.3	4524.8	4529.5	4463.8	4307.9
12.5°	3892.9	3923.9	3955.8	4036.5	4144.5	4265.6	4378.3	4396.2	4428.1	4378.3	4195.2
15°	3623.4	3655.3	3701.3	3773.6	3904.1	4078.8	4237.5	4266.6	4329.5	4304.1	4090.1
17.5°	3436.5	3447.8	3479.7	3562.4	3703.2	3887.2	4099.4	4157.7	4258.1	4251.6	3999.9
20°	3289.1	3303.2	3322.9	3373.6	3520.1	3714.5	3970.8	4045.9	4182.1	4204.6	3910.7
22.5°	3227.2	3237.5	3234.7	3261.9	3361.4	3556.7	3840.3	3929.5	4114.5	4172.7	3828.1
25°	3230.9	3240.3	3226.2	3219.7	3278.8	3417.8	3704.1	3817.8	4060.0	4151.1	3753.0
27.5°	3293.8	3300.4	3274.1	3247.8	3252.5	3331.4	3591.5	3717.3	4014.0	4160.5	3690.1
30°	3378.3	3390.5	3373.6	3341.7	3307.0	3310.7	3519.2	3643.1	3992.4	4193.3	3660.0
32.5°	3487.3	3498.5	3491.0	3465.7	3420.6	3370.8	3501.3	3615.9	3994.3	4260.0	3653.4
35°	3601.8	3624.3	3636.5	3634.7	3598.0	3511.7	3571.8	3666.6	4039.4	4371.7	3691.9
37.5°	3731.4	3750.2	3802.7	3836.5	3802.7	3702.3	3730.4	3796.2	4138.9	4533.2	3776.4
40°	3857.2	3885.4	3962.4	4067.5	4054.4	3966.1	3972.7	4015.9	4314.5	4773.6	3941.7
42.5°	3988.6	4022.5	4156.7	4312.6	4343.6	4275.0	4292.9	4331.4	4564.2	5106.9	4225.3
45°	4157.7	4198.0	4363.3	4557.7	4679.7	4637.5	4688.2	4706.9	4898.5	5540.7	4599.0
47.5°	4375.5	4422.4	4626.2	4868.4	5041.2	5079.7	5168.0	5156.7	5312.6	6054.3	5083.5
50°	4742.6	4768.9	4961.4	5208.3	5445.9	5619.6	5715.4	5733.2	5826.2	6553.9	5625.2
52.5°	5179.2	5202.7	5341.7	5557.6	5855.3	6223.3	6460.0	6401.7	6424.3	7162.3	6259.0
55°	5670.3	5709.7	5798.0	5941.7	6327.6	6869.3	7344.4	7358.5	7108.8	7744.4	6866.5
57.5°	6050.6	6117.2	6268.4	6473.1	6962.3	7587.6	8226.1	8235.5	7916.3	8366.0	7536.9
60°	5859.0	5937.9	6283.4	6782.0	7795.1	8841.1	9279.6	9226.1	8702.2	9074.0	8354.8
62.5°	5032.8	5046.8	5549.2	6328.5	8051.5	10518.1	10847.7	10621.4	9751.0	9971.6	9185.7
65°	3257.2	3349.2	3747.3	4839.3	7209.2	11448.6	13595.0	13072.0	11221.4	10990.4	9881.5
67.5°	2056.3	2032.8	2198.1	2763.3	4958.6	10628.9	15939.6	15856.9	13144.3	11633.6	9715.3
69°	1705.1	1731.4	1787.8	2118.3	3412.1	9074.9	16216.6	16787.4	14076.7	11582.9	9111.5
70°	1546.4	1558.7	1617.8	1877.9	2632.8	7600.8	15762.1	16762.1	14442.9	11370.7	8674.0
72.5°	1227.2	1226.3	1327.7	1562.4	1968.0	4338.9	12942.5	14552.7	14033.5	10382.9	7167.0
75°	932.4	947.4	1059.1	1322.0	1813.1	2370.8	9031.7	11207.3	11208.2	8200.8	4472.2
77.5°	672.3	681.7	812.2	1109.8	1707.9	1922.0	6015.8	8038.3	7556.6	3757.7	1405.6
80°	440.4	446.0	545.5	878.9	1539.9	1813.1	3567.1	4920.1	3564.2	997.2	464.8
82.5°	241.3	269.5	333.3	569.0	1235.7	1675.1	2168.0	2490.1	1337.1	444.1	242.2
85°	121.1	128.6	187.8	332.4	807.5	1385.9	1509.8	1428.1	690.1	220.7	125.8
87.5°	35.7	45.1	77.9	128.6	327.7	722.1	840.4	754.0	265.7	79.8	26.3
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°	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5	4652.5
2.5°	4614.0	4597.1	4522.0	4454.4	4392.4	4326.7	4271.3	4222.4	4227.1	4228.1	4178.3
5°	4508.8	4470.3	4327.6	4194.3	4081.6	3938.9	3816.8	3737.9	3698.5	3645.9	3664.7
7.5°	4366.1	4291.9	4093.8	3872.2	3664.7	3479.7	3278.8	3140.8	3052.5	2967.1	2978.3
10°	4218.7	4099.4	3811.2	3518.2	3249.7	2953.9	2697.6	2477.9	2314.5	2253.5	2213.1
12.5°	4067.5	3910.7	3544.5	3154.9	2784.0	2430.0	2066.6	1830.9	1650.7	1554.9	1567.1
15°	3929.5	3738.9	3266.6	2791.5	2309.8	1888.2	1525.8	1301.4	1175.6	1149.3	1164.3
17.5°	3801.8	3552.0	3006.5	2438.4	1876.0	1415.9	1146.5	1019.7	969.0	954.9	954.0
20°	3670.3	3393.4	2714.5	2061.0	1461.9	1097.6	940.8	881.7	872.3	877.9	878.9
22.5°	3537.0	3197.1	2414.0	1686.3	1164.3	897.6	822.5	806.6	814.1	827.2	829.1
25°	3414.0	3024.3	2124.8	1357.7	929.6	788.7	752.1	752.1	769.0	788.7	789.7
27.5°	3312.6	2857.2	1836.6	1077.9	778.4	709.8	697.6	704.2	727.7	742.7	743.6
30°	3229.0	2701.4	1564.3	863.8	684.5	646.9	644.1	655.4	672.3	686.4	687.3
32.5°	3166.1	2564.3	1309.8	725.8	619.7	599.0	598.1	606.6	615.9	619.7	623.5
35°	3141.7	2450.7	1077.0	638.5	576.5	563.4	563.4	562.4	566.2	568.1	569.9
37.5°	3161.4	2363.3	896.7	582.1	544.6	535.2	529.6	523.9	522.1	522.1	523.0
40°	3245.0	2317.3	762.4	545.5	522.1	508.0	497.6	491.1	484.5	486.4	488.3
42.5°	3422.5	2325.8	671.3	521.1	502.3	482.6	467.6	460.1	455.4	461.0	460.1
45°	3705.1	2410.3	613.1	504.2	482.6	457.3	443.2	435.7	435.7	444.1	446.9
47.5°	4100.4	2571.8	582.1	491.1	467.6	437.5	423.5	417.8	419.7	433.8	434.7
50°	4583.0	2852.5	576.5	484.5	460.1	423.5	407.5	401.9	406.6	421.6	423.5
52.5°	5115.4	3214.0	603.7	485.4	453.5	415.0	394.4	385.9	390.6	402.8	406.6
55°	5746.4	3666.6	674.2	489.2	444.1	410.3	385.0	366.2	371.8	380.3	381.2
57.5°	6390.5	4237.5	798.1	490.1	436.6	401.9	369.0	344.6	344.6	350.2	353.0
60°	7177.3	4859.1	961.5	491.1	437.5	389.7	347.4	320.2	316.4	319.2	320.2
62.5°	7958.5	5379.2	988.7	488.3	446.9	377.5	323.9	295.8	289.2	288.3	286.4
65°	8303.1	5282.5	810.3	475.1	457.3	369.9	305.2	272.3	261.0	257.3	257.3
67.5°	7741.6	4468.5	609.4	457.3	450.7	362.4	287.3	252.6	239.4	231.9	231.9
69°	7213.9	3974.6	547.4	445.1	433.8	350.2	276.1	242.2	226.3	217.8	215.0
70°	6806.4	3634.7	521.1	434.7	417.8	336.1	267.6	234.7	216.9	207.5	205.6
72.5°	5431.8	2851.6	456.3	395.3	355.9	282.6	237.6	211.3	194.4	184.0	181.2
75°	3130.5	1545.5	378.4	343.7	286.4	219.7	200.9	184.0	170.9	161.5	158.7
77.5°	963.4	597.2	274.2	271.4	210.3	169.9	160.6	154.0	144.6	134.3	132.4
80°	405.6	304.2	185.9	183.1	139.9	118.3	115.5	114.6	110.8	102.3	99.5
82.5°	222.5	171.8	129.6	112.7	84.5	68.5	71.4	72.3	69.5	61.0	55.4
85°	108.9	93.9	62.9	50.7	38.5	24.4	23.5	28.2	26.3	18.8	20.7
87.5°	21.6	26.3	16.9	7.5	3.8	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)