

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: P452314

Luminaire Tested: **GALN-SA3B-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452314
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-SA3B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 15442 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

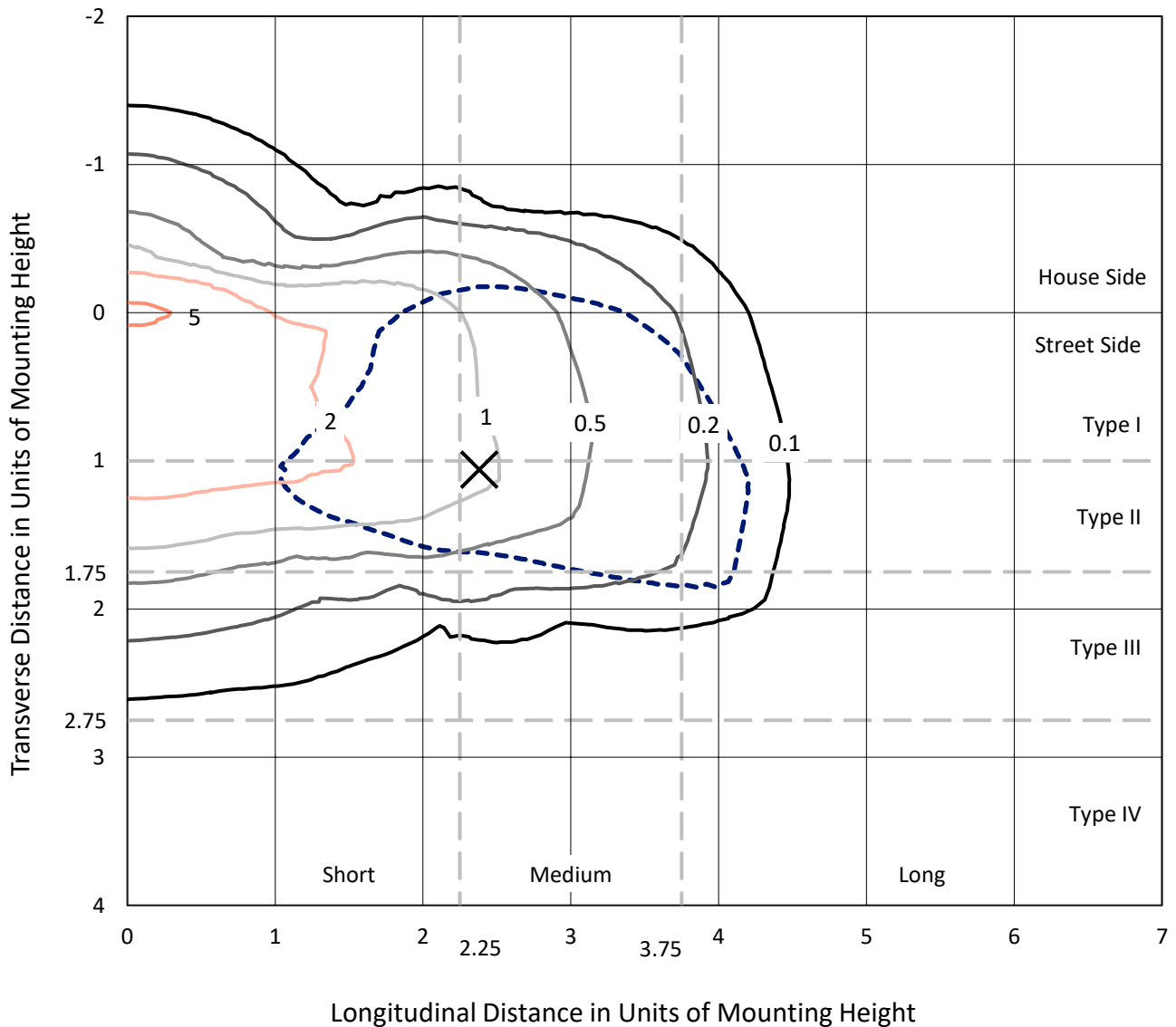
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

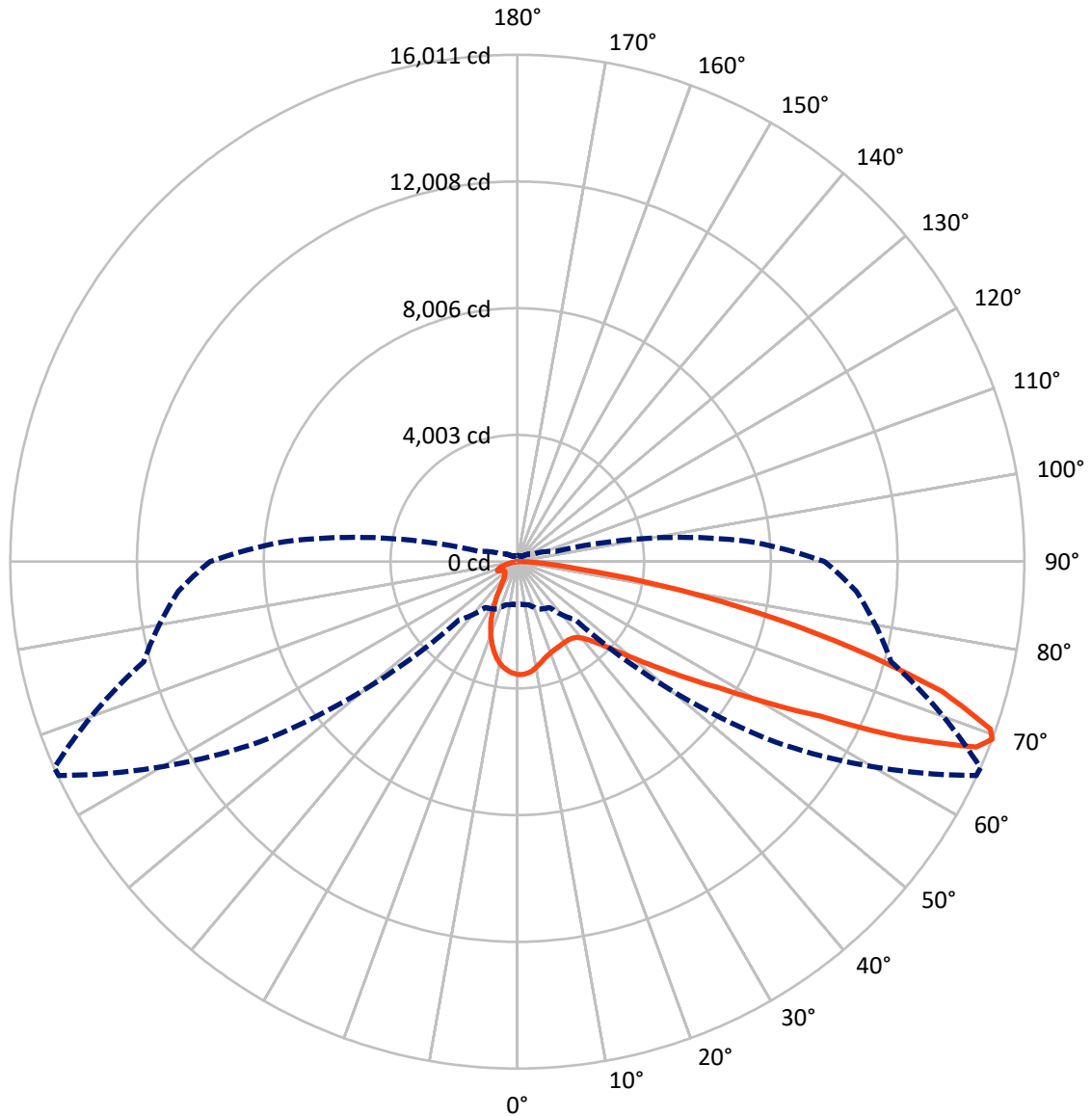
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2904.1	0.0	2904.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12537.9	0.0	12537.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	15442.0	0.0	15442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	2.0
10°-20°	734.5	4.8
20°-30°	999.9	6.5
30°-40°	1343.7	8.7
40°-50°	2006.4	13.0
50°-60°	3191.4	20.7
60°-70°	3925.3	25.4
70°-80°	2554.0	16.5
80°-90°	377.1	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°	15442.0	100.0
0°-180°	15442.0	100.0

Coefficient of Utilization



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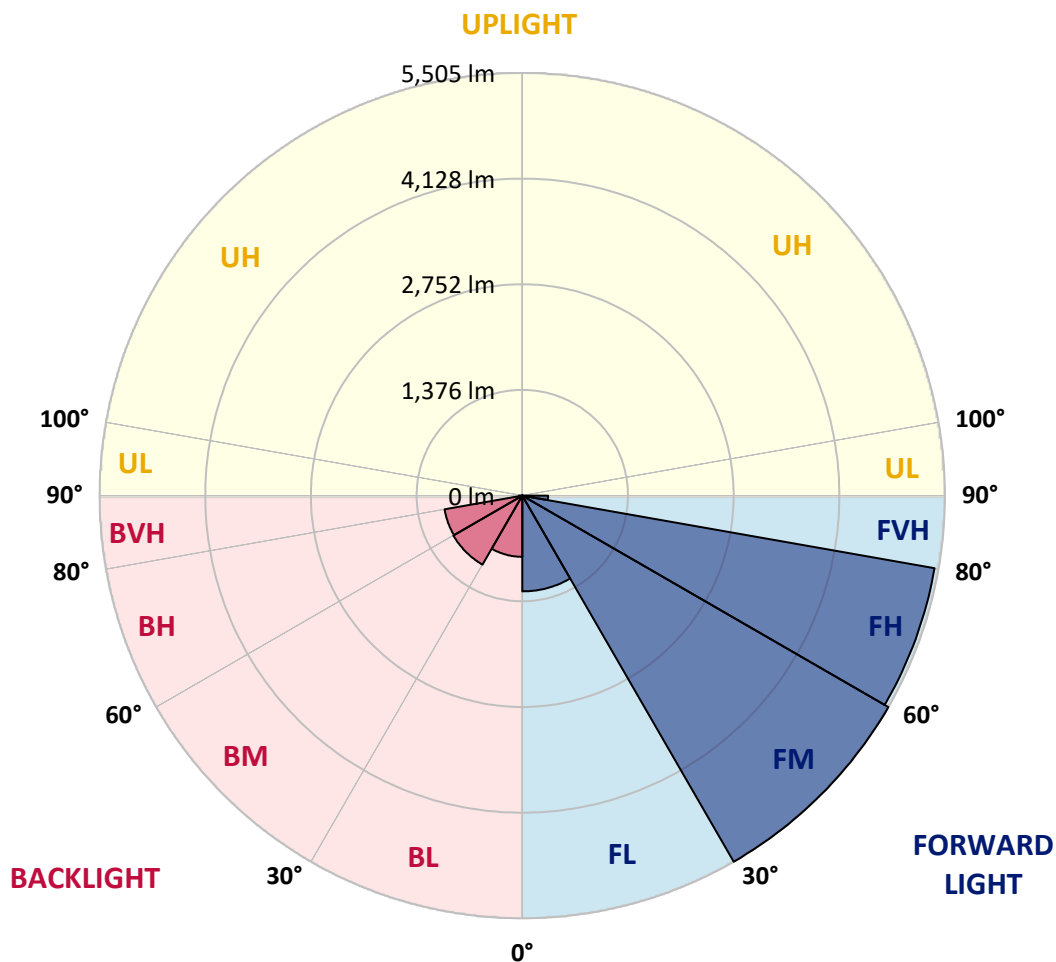
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1246.9	8.1			
FM	(30°-60°)	5504.6	35.6			
FH	(60°-80°)	5451.1	35.3			G3/7500
FVH	(80°-90°)	335.3	2.2			G3/500
BL	(0°-30°)	797.2	5.2	B2/1000		
BM	(30°-60°)	1036.9	6.7	B2/2500		
BH	(60°-80°)	1028.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	41.8	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0
2.5°	3441.1	3454.8	3470.2	3487.3	3519.8	3537.8	3550.6	3565.1	3566.8	3574.5	3568.6
5°	3187.2	3203.4	3226.5	3259.0	3307.7	3383.8	3462.5	3526.6	3534.3	3570.3	3580.5
7.5°	2975.1	2984.5	3003.3	3055.5	3124.7	3209.4	3324.0	3454.0	3472.8	3558.3	3588.2
10°	2802.3	2811.7	2834.0	2887.9	2956.3	3062.3	3188.0	3359.0	3374.4	3521.5	3589.9
12.5°	2673.2	2681.8	2705.7	2758.7	2837.4	2936.6	3075.1	3256.4	3278.7	3472.8	3573.7
15°	2574.9	2591.1	2610.8	2654.4	2737.3	2833.1	2967.4	3162.4	3180.3	3421.5	3562.6
17.5°	2533.0	2540.7	2554.3	2594.5	2655.2	2749.3	2884.4	3088.8	3110.2	3385.5	3560.0
20°	2534.7	2542.4	2544.9	2567.2	2610.8	2692.0	2825.4	3030.7	3056.3	3353.9	3564.3
22.5°	2592.8	2593.7	2584.3	2576.6	2593.7	2661.2	2783.5	2987.0	3017.0	3340.2	3567.7
25°	2682.6	2698.0	2684.3	2648.4	2616.8	2649.3	2767.3	2963.1	2991.3	3320.6	3563.4
27.5°	2828.0	2830.6	2819.4	2770.7	2688.6	2664.7	2760.4	2945.1	2969.1	3306.0	3542.0
30°	3023.0	3015.3	3005.0	2951.1	2822.0	2723.7	2775.0	2928.9	2953.7	3284.6	3516.4
32.5°	3220.5	3244.4	3235.0	3171.8	3004.2	2838.3	2822.0	2927.2	2947.7	3268.4	3488.2
35°	3430.0	3441.1	3485.6	3453.1	3281.2	3023.8	2910.1	2953.7	2969.9	3269.2	3468.5
37.5°	3594.2	3624.1	3728.5	3756.7	3595.1	3269.2	3052.9	3029.0	3035.8	3311.2	3476.2
40°	3792.6	3843.9	3978.2	4093.6	3987.6	3588.2	3295.8	3168.3	3176.9	3412.1	3526.6
42.5°	4044.0	4079.9	4260.4	4416.9	4399.8	4009.8	3589.9	3396.7	3400.9	3613.0	3667.8
45°	4338.2	4389.5	4592.2	4827.3	4867.5	4487.0	4014.9	3742.1	3739.6	3925.2	3931.1
47.5°	4714.5	4746.1	4947.1	5203.6	5366.1	5086.4	4530.6	4238.1	4210.8	4380.1	4331.3
50°	5060.8	5110.4	5262.6	5543.1	5947.6	5788.5	5208.7	4881.2	4817.1	4975.3	4893.2
52.5°	5206.2	5258.3	5386.6	5734.7	6446.1	6696.7	6069.9	5648.3	5541.4	5662.8	5632.9
55°	4953.9	5021.5	5141.2	5564.5	6665.1	7744.3	7231.2	6535.1	6457.3	6405.1	6413.6
57.5°	4275.8	4339.9	4501.5	4968.4	6403.4	8504.5	8889.3	7675.0	7508.2	7267.9	7309.0
60°	3254.7	3294.9	3378.7	3896.1	5627.8	8702.0	10772.4	9115.9	9009.9	8127.4	8156.4
62.5°	2311.5	2356.8	2415.0	2673.2	4120.1	8145.3	12246.6	11128.1	10749.3	9017.6	8989.4
65°	1877.1	1846.3	1916.4	2037.0	2417.5	6312.7	12578.4	13921.0	13399.4	10190.0	9798.3
67.5°	1543.6	1511.1	1580.3	1795.0	1838.6	3664.3	11382.9	15734.0	15629.6	11465.0	10620.1
69°	1366.5	1349.4	1410.1	1654.7	1765.0	2602.2	9916.4	15986.2	16011.0	12216.7	10746.7
70°	1231.4	1238.3	1297.3	1583.7	1731.7	2145.6	8475.4	15638.2	15848.5	12592.1	10609.9
72.5°	906.5	921.0	1003.1	1311.8	1700.0	1820.6	5043.7	13659.4	14031.3	12614.4	9706.0
75°	633.7	626.8	699.5	987.7	1606.0	1804.4	2962.2	10563.7	10985.3	10903.2	8155.6
77.5°	414.7	425.9	484.0	697.8	1351.1	1790.7	1930.9	7494.6	7768.2	7291.9	4823.9
80°	292.5	291.6	324.1	476.3	1002.2	1720.6	1581.2	4723.9	4654.6	2865.6	1430.7
82.5°	167.6	179.6	217.2	335.2	670.4	1514.5	1454.6	2259.3	2062.6	816.7	483.2
85°	93.2	97.5	129.1	202.7	391.7	1140.8	1269.9	1027.9	969.7	341.2	207.8
87.5°	29.9	32.5	53.9	102.6	177.9	538.7	719.2	474.6	437.8	123.1	83.8
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°	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0	3566.0
2.5°	3571.1	3581.4	3554.0	3527.5	3503.6	3470.2	3440.3	3415.5	3398.4	3395.8	3387.3
5°	3583.1	3583.9	3531.8	3461.7	3393.2	3318.0	3240.2	3184.6	3132.4	3103.3	3088.8
7.5°	3591.6	3583.9	3489.9	3376.1	3244.4	3107.6	2970.8	2861.3	2776.7	2743.3	2756.2
10°	3588.2	3564.3	3426.6	3244.4	3052.9	2848.5	2651.8	2497.9	2356.8	2284.1	2285.8
12.5°	3569.4	3530.1	3332.5	3096.5	2815.2	2541.5	2240.5	2032.7	1869.4	1772.7	1742.8
15°	3553.2	3484.7	3222.2	2895.5	2545.8	2155.0	1788.1	1531.6	1394.8	1318.6	1317.8
17.5°	3536.1	3441.1	3101.6	2682.6	2236.2	1733.4	1348.6	1152.7	1088.6	1096.3	1083.5
20°	3518.1	3389.8	2975.9	2445.7	1859.1	1293.0	1009.9	930.4	948.4	983.4	988.6
22.5°	3497.6	3335.1	2840.8	2184.9	1462.3	973.2	819.2	807.3	853.4	908.2	915.9
25°	3465.9	3266.7	2670.6	1912.1	1127.9	784.2	717.5	726.0	771.3	817.5	822.7
27.5°	3421.5	3182.0	2498.8	1571.8	847.5	673.0	655.9	667.0	689.3	717.5	724.3
30°	3361.6	3086.2	2301.2	1277.6	679.0	617.4	610.6	616.6	629.4	641.4	644.8
32.5°	3301.7	2993.9	2102.0	978.3	605.4	580.6	573.8	573.8	573.8	575.5	576.4
35°	3246.2	2906.7	1888.2	761.9	567.0	551.6	542.2	531.9	530.2	524.2	524.2
37.5°	3215.4	2827.1	1660.7	637.9	538.7	527.6	514.8	497.7	488.3	489.1	487.4
40°	3221.4	2775.0	1453.8	567.8	515.7	503.7	484.0	464.3	458.4	458.4	456.7
42.5°	3288.9	2757.9	1255.4	531.0	493.4	479.7	454.9	437.0	433.6	432.7	434.4
45°	3444.6	2799.8	1077.5	507.1	474.6	454.1	429.3	413.0	409.6	409.6	408.8
47.5°	3748.1	2935.7	950.1	491.7	460.9	434.4	408.8	392.5	386.5	384.8	384.8
50°	4220.2	3230.8	855.2	478.0	443.8	416.5	389.9	371.1	361.7	360.9	360.0
52.5°	4876.1	3690.8	818.4	467.8	425.0	397.6	368.6	350.6	338.6	336.1	334.4
55°	5643.2	4333.1	868.8	460.1	405.3	376.3	346.3	327.5	316.4	311.3	310.4
57.5°	6531.7	5104.4	1060.4	449.8	387.4	353.2	324.1	305.3	293.3	287.3	285.6
60°	7329.5	5897.1	1394.8	443.8	372.0	328.4	298.4	281.3	270.2	264.2	263.4
62.5°	8206.0	6653.1	1794.1	460.1	365.2	304.4	274.5	259.1	249.7	243.7	243.7
65°	9142.4	7409.9	2058.4	514.8	375.4	285.6	248.8	236.0	227.5	223.2	222.3
67.5°	9773.5	7671.6	1695.8	571.2	401.1	265.1	224.1	213.8	208.7	204.4	204.4
69°	9705.1	7340.6	1251.1	585.8	408.8	254.8	210.4	202.7	195.8	194.1	192.4
70°	9488.8	6963.5	1048.4	576.4	402.8	245.4	201.8	192.4	186.4	184.7	183.9
72.5°	8451.5	6039.1	780.8	501.1	342.9	212.9	178.7	170.2	165.0	162.5	162.5
75°	7021.7	4935.9	609.7	398.5	268.5	179.6	153.1	146.2	142.0	140.2	139.4
77.5°	3935.4	2756.2	437.8	312.1	203.5	145.4	128.3	122.3	118.0	116.3	116.3
80°	1096.3	787.6	257.4	206.1	138.5	110.3	101.8	97.5	91.5	87.2	89.8
82.5°	413.0	341.2	147.1	124.0	88.1	73.5	71.0	67.6	65.0	59.0	59.0
85°	201.0	165.9	94.1	65.8	48.7	38.5	36.8	35.1	33.4	29.1	29.9
87.5°	69.3	73.5	41.0	23.9	14.5	9.4	7.7	4.3	4.3	4.3	4.3
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)