

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: P453014

Luminaire Tested: **GALN-SA4A-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453014
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-SA4A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 16127 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

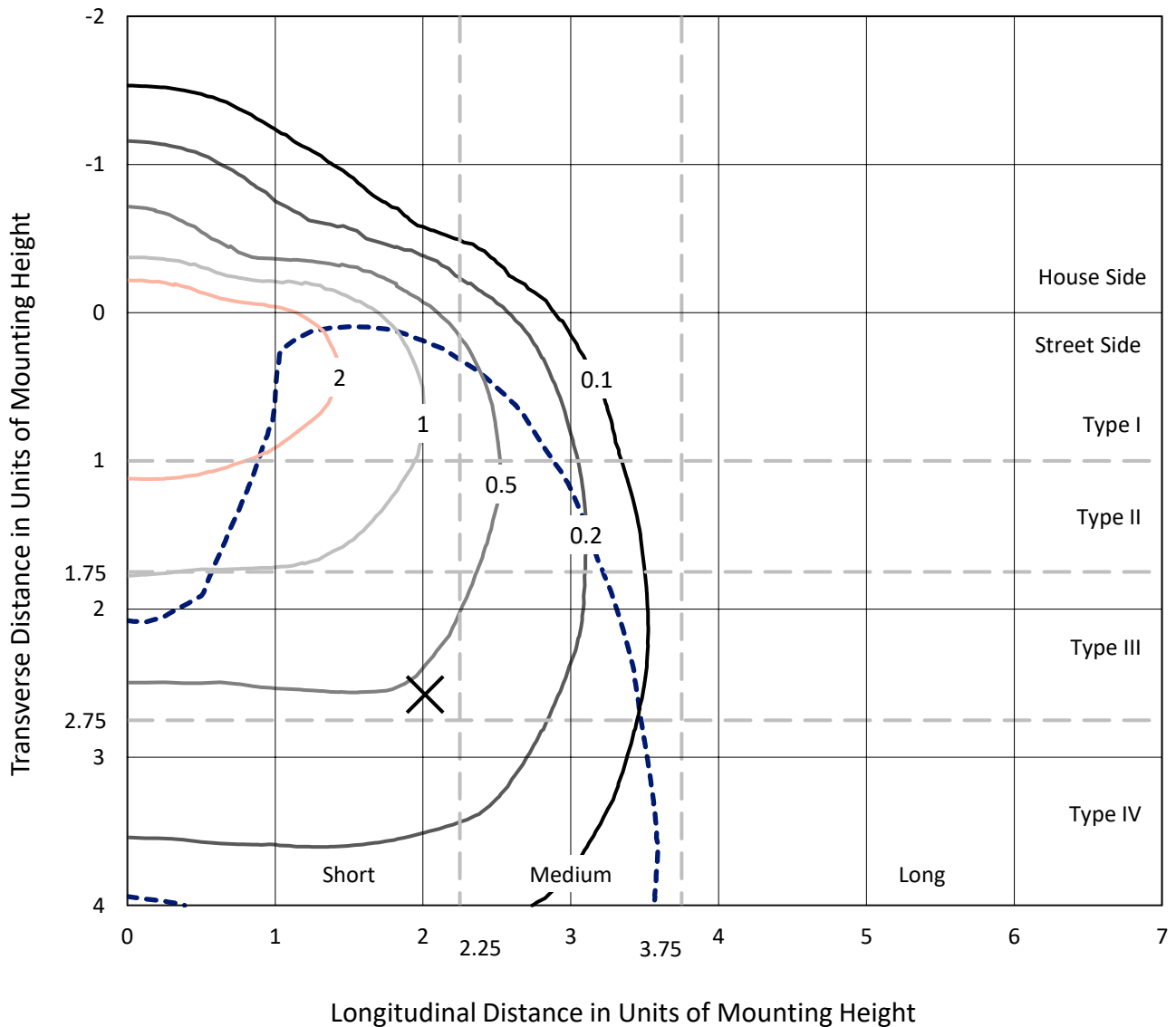
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

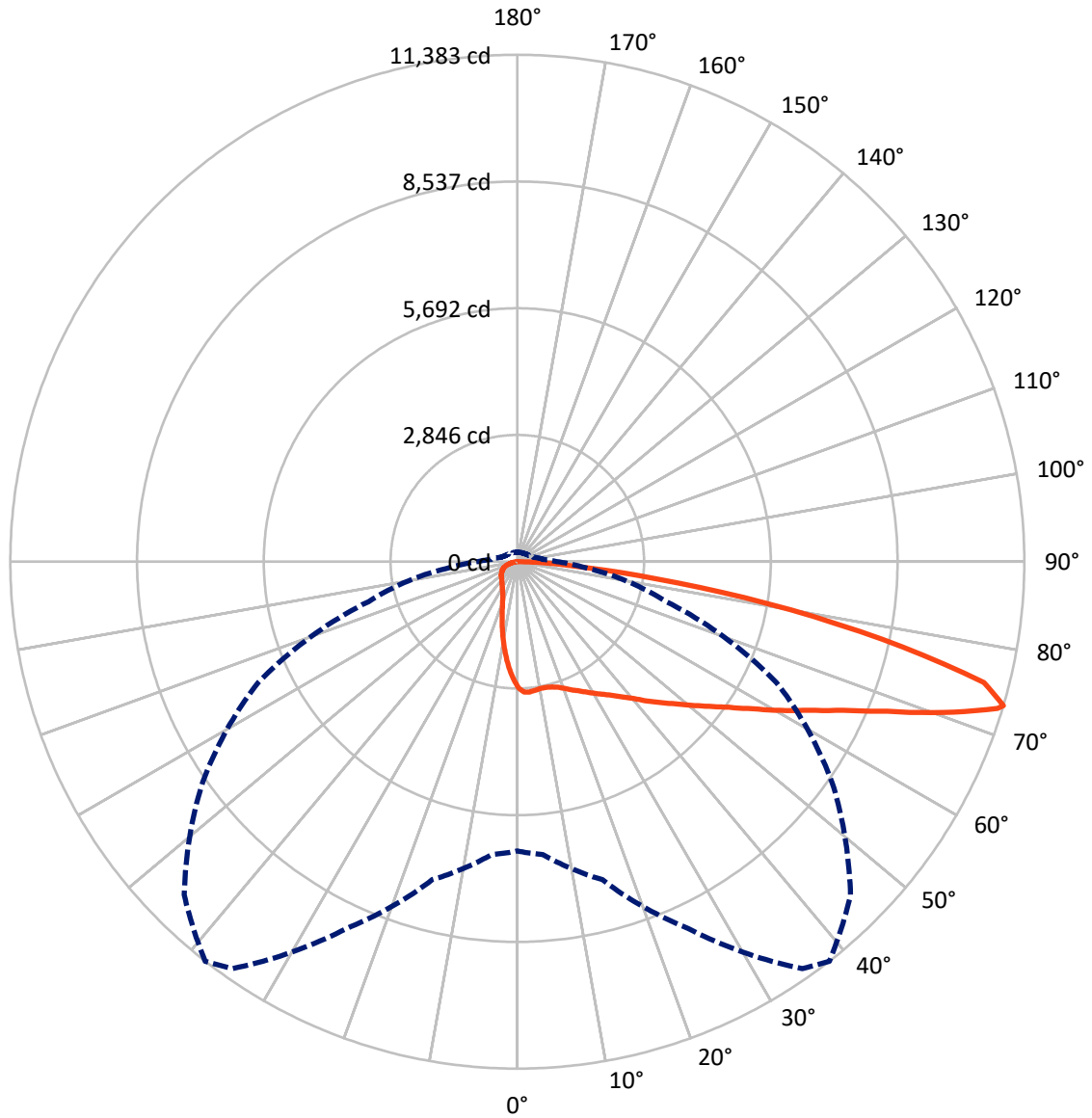
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2168.0	0.0	2168.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13959.1	0.0	13959.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	16127.0	0.0	16127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	1.5
10°-20°	634.2	3.9
20°-30°	987.5	6.1
30°-40°	1448.5	9.0
40°-50°	2148.7	13.3
50°-60°	3044.3	18.9
60°-70°	3861.8	23.9
70°-80°	3214.6	19.9
80°-90°	540.1	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°	16127.0	100.0
0°-180°	16127.0	100.0

Coefficient of Utilization



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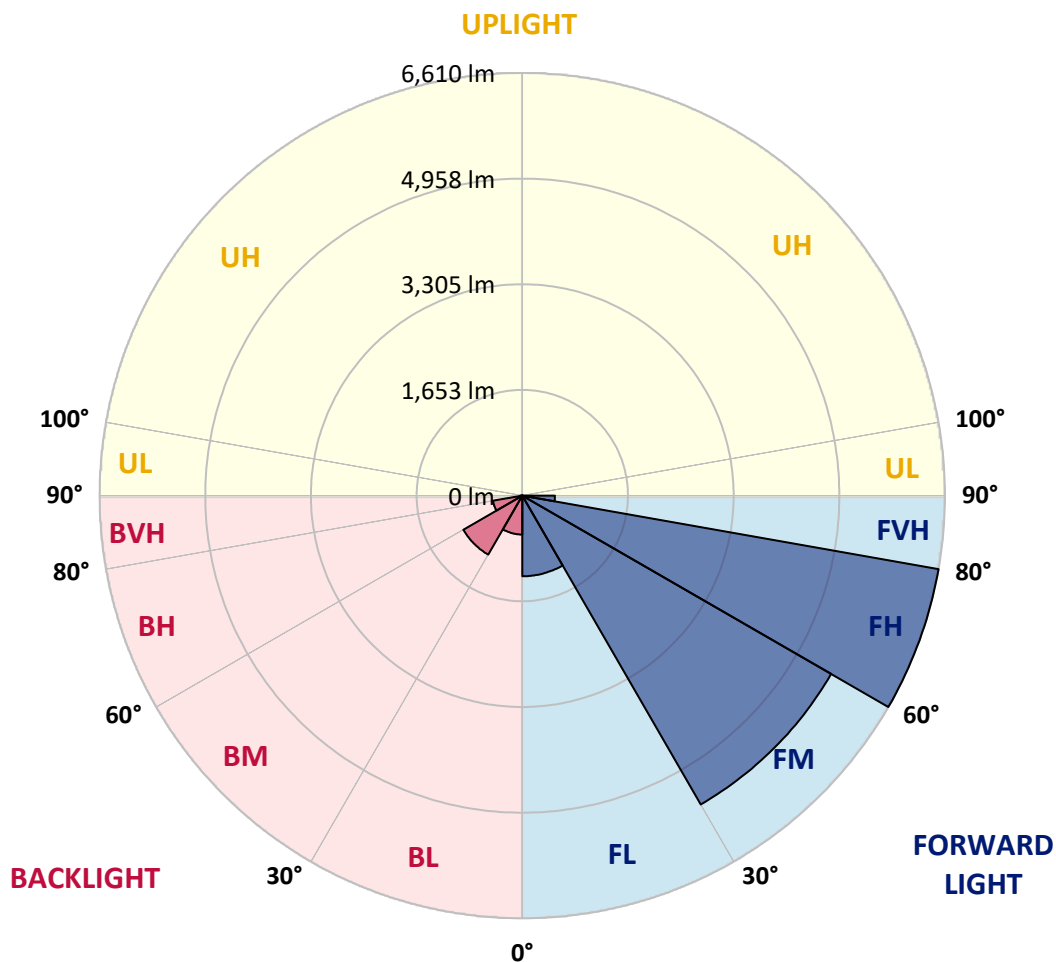
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1260.7	7.8			
FM	(30°-60°)	5577.1	34.6			
FH	(60°-80°)	6610.4	41.0			G3/7500
FVH	(80°-90°)	510.8	3.2			G4/750
BL	(0°-30°)	608.3	3.8	B2/1000		
BM	(30°-60°)	1064.3	6.6	B2/2500		
BH	(60°-80°)	466.0	2.9	B1/500		G1/500
BVH	(80°-90°)	29.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2
2.5°	2947.1	2961.7	2954.4	2944.3	2938.0	2931.6	2922.5	2896.1	2875.1	2852.4	2816.8
5°	2968.9	2978.0	2971.7	2958.9	2944.3	2938.0	2920.7	2886.1	2852.4	2814.1	2761.3
7.5°	2956.2	2959.8	2952.5	2937.1	2924.3	2912.5	2892.4	2854.2	2813.2	2766.8	2697.5
10°	2910.7	2924.3	2924.3	2911.6	2898.8	2892.4	2872.4	2836.0	2798.6	2745.8	2663.8
12.5°	2873.3	2887.9	2899.7	2896.1	2895.2	2895.2	2879.7	2852.4	2808.7	2758.6	2661.1
15°	2847.8	2865.1	2890.6	2905.2	2914.3	2917.0	2910.7	2887.0	2842.3	2784.1	2672.0
17.5°	2842.3	2863.3	2909.7	2941.6	2965.3	2964.4	2962.6	2929.8	2880.6	2820.5	2685.7
20°	2866.9	2894.3	2958.9	3009.0	3043.6	3037.2	3027.2	2984.4	2927.0	2859.7	2698.5
22.5°	2940.7	2968.9	3040.0	3094.6	3128.3	3128.3	3098.3	3041.8	2980.8	2905.2	2715.8
25°	3046.3	3077.3	3152.9	3208.5	3223.9	3212.1	3182.0	3113.7	3043.6	2970.8	2752.2
27.5°	3175.7	3213.0	3283.1	3329.6	3325.0	3315.9	3285.0	3197.5	3127.4	3060.9	2814.1
30°	3336.9	3364.2	3437.0	3448.0	3431.6	3429.8	3386.0	3298.6	3233.0	3182.0	2902.5
32.5°	3489.0	3513.5	3571.8	3576.4	3547.2	3550.9	3509.9	3429.8	3392.4	3374.2	3050.9
35°	3650.2	3662.9	3713.0	3707.5	3688.4	3685.7	3669.3	3592.8	3604.6	3637.4	3261.3
37.5°	3784.9	3810.4	3838.7	3843.2	3842.3	3851.4	3862.4	3825.9	3894.2	3997.1	3537.2
40°	3908.8	3930.7	3972.5	3987.1	4022.6	4040.9	4078.2	4079.1	4236.7	4406.0	3876.9
42.5°	3992.6	4029.9	4108.2	4134.7	4221.2	4275.8	4331.4	4390.6	4619.2	4836.8	4277.6
45°	4065.4	4114.6	4244.9	4326.8	4444.3	4510.8	4628.3	4752.1	5080.9	5365.9	4684.7
47.5°	4175.6	4219.4	4368.7	4513.5	4691.1	4767.6	4943.4	5128.2	5558.1	5870.5	5074.5
50°	4328.6	4355.0	4507.1	4743.0	4969.8	5068.1	5300.4	5567.2	6068.1	6368.6	5416.9
52.5°	4524.4	4535.4	4656.5	4970.7	5269.4	5391.4	5699.3	6010.7	6514.4	6801.2	5688.3
55°	4755.8	4737.5	4832.3	5212.0	5611.8	5771.2	6101.8	6459.7	7016.2	7150.9	5886.0
57.5°	4984.4	4956.1	5031.7	5505.3	6034.4	6226.6	6611.8	6922.4	7464.2	7477.9	6024.4
60°	5226.6	5205.7	5295.8	5849.5	6552.6	6780.3	7136.4	7402.3	7897.7	7705.6	6046.3
62.5°	5475.2	5441.5	5569.9	6236.6	7136.4	7343.1	7688.3	7912.3	8323.0	7790.3	5835.9
65°	5716.6	5701.1	5899.6	6696.5	7801.2	8036.2	8371.3	8523.4	8663.7	7662.8	5314.0
67.5°	5973.4	6004.4	6321.3	7310.3	8668.2	8963.3	9324.8	9181.8	8761.1	7059.0	4475.3
70°	6365.0	6385.0	6875.0	8114.5	9785.7	10141.7	10316.6	9415.9	8291.2	5912.4	3364.2
72.5°	6533.5	6621.8	7369.5	8958.7	11055.2	11272.9	10649.9	8894.1	6906.9	4016.3	1767.7
73°	6496.1	6601.8	7392.3	9087.1	11154.5	11383.1	10578.9	8625.4	6420.6	3458.9	1515.4
75°	6030.8	6161.0	7096.3	8979.7	10961.4	10824.8	9436.8	7351.3	4338.7	1572.8	690.3
77.5°	4758.5	4795.8	5622.8	7251.1	8631.8	8378.6	7062.6	4594.6	1772.3	584.7	391.6
80°	2387.0	2524.5	3169.3	4153.8	5772.1	5689.2	4458.0	2173.0	738.6	343.3	259.6
82.5°	1148.4	1245.9	1543.7	2025.4	3189.3	3113.7	2207.6	1187.6	469.0	200.4	153.0
85°	739.5	812.4	982.7	966.3	1311.4	1252.2	991.8	898.9	277.8	104.7	106.6
87.5°	488.1	534.6	641.1	512.7	477.2	431.7	438.1	506.4	54.6	40.1	14.6
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°	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2	2833.2
2.5°	2802.3	2790.4	2751.3	2713.0	2676.6	2642.0	2619.2	2589.2	2569.1	2574.6	2582.8
5°	2732.2	2705.7	2636.5	2569.1	2505.4	2429.8	2368.8	2319.6	2282.3	2268.6	2265.9
7.5°	2658.4	2613.8	2514.5	2398.8	2290.5	2196.6	2088.3	2034.5	1971.7	1949.8	1942.6
10°	2613.8	2553.7	2414.3	2253.1	2090.1	1934.4	1816.9	1721.3	1634.7	1618.3	1610.1
12.5°	2601.0	2521.8	2334.2	2126.5	1909.8	1718.5	1544.6	1418.9	1335.1	1316.0	1287.8
15°	2593.7	2495.4	2259.5	1999.0	1724.0	1490.8	1307.8	1161.2	1084.7	1033.7	1034.6
17.5°	2587.3	2465.3	2175.7	1859.7	1563.7	1295.0	1092.9	960.8	890.7	863.4	860.6
20°	2578.2	2429.8	2079.2	1713.1	1380.6	1116.5	933.5	835.1	787.8	765.0	764.1
22.5°	2574.6	2395.2	1984.5	1563.7	1218.5	979.0	827.8	758.6	728.6	713.1	713.1
25°	2583.7	2370.6	1885.2	1421.6	1074.6	861.5	755.0	707.6	690.3	682.1	679.4
27.5°	2611.9	2359.7	1786.8	1279.6	942.6	781.4	705.8	673.0	660.3	653.9	654.8
30°	2665.7	2358.8	1690.3	1139.3	844.2	720.4	666.6	643.9	633.9	630.2	629.3
32.5°	2752.2	2378.8	1595.6	1023.6	761.4	669.4	630.2	613.8	609.3	606.5	605.6
35°	2898.8	2435.3	1501.8	918.0	697.6	623.8	595.6	587.4	581.0	583.8	584.7
37.5°	3096.4	2532.7	1412.5	835.1	649.3	590.1	566.5	559.2	555.5	558.3	561.0
40°	3361.5	2673.0	1337.8	768.6	614.7	561.9	541.0	534.6	530.9	535.5	536.4
42.5°	3653.8	2835.1	1275.9	716.7	586.5	538.2	518.2	510.9	508.2	510.9	511.8
45°	3954.3	3023.6	1244.0	679.4	562.8	520.9	500.0	491.8	485.4	483.6	486.3
47.5°	4250.3	3187.5	1243.1	656.6	543.7	505.4	482.7	473.6	465.4	460.8	459.9
50°	4491.7	3317.7	1265.0	646.6	527.3	488.1	465.4	456.3	445.3	436.2	438.1
52.5°	4673.8	3402.4	1275.0	642.1	518.2	469.9	447.2	439.0	426.2	414.4	414.4
55°	4791.3	3422.5	1250.4	637.5	510.9	450.8	426.2	418.9	406.2	394.3	394.3
57.5°	4831.4	3360.5	1162.1	626.6	503.6	434.4	405.3	398.9	388.9	377.0	375.2
60°	4738.5	3151.1	1007.3	593.8	489.1	417.1	382.5	379.8	376.1	366.1	365.2
62.5°	4380.5	2706.7	838.8	551.0	464.5	398.9	361.6	366.1	368.8	363.4	362.5
65°	3784.9	2197.6	716.7	491.8	431.7	373.4	338.8	350.6	357.9	357.9	356.1
67.5°	3070.0	1687.6	603.8	440.8	390.7	338.8	313.3	322.4	327.9	326.0	330.6
70°	2182.1	1142.9	491.8	382.5	338.8	299.6	280.5	280.5	276.9	275.0	275.0
72.5°	1058.3	653.0	398.9	319.7	288.7	255.9	240.4	234.1	226.8	225.9	221.3
73°	884.3	585.6	380.7	307.8	276.9	249.5	232.2	222.2	217.7	214.0	213.1
75°	538.2	444.4	317.8	259.6	235.9	214.9	199.4	190.3	185.8	183.1	182.1
77.5°	354.3	331.5	246.8	198.5	180.3	167.6	161.2	152.1	149.4	145.7	145.7
80°	264.1	253.2	176.7	140.3	129.3	118.4	116.6	114.8	107.5	102.9	101.1
82.5°	170.3	180.3	120.2	93.8	82.0	72.9	73.8	76.5	69.2	62.8	61.0
85°	121.1	130.2	72.9	42.8	34.6	30.1	33.7	30.1	31.0	24.6	20.0
87.5°	20.0	34.6	12.8	5.5	2.7	1.8	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)