

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: P453246

Luminaire Tested: **GALN-SA4B-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453246
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-SA4B-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 20066 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

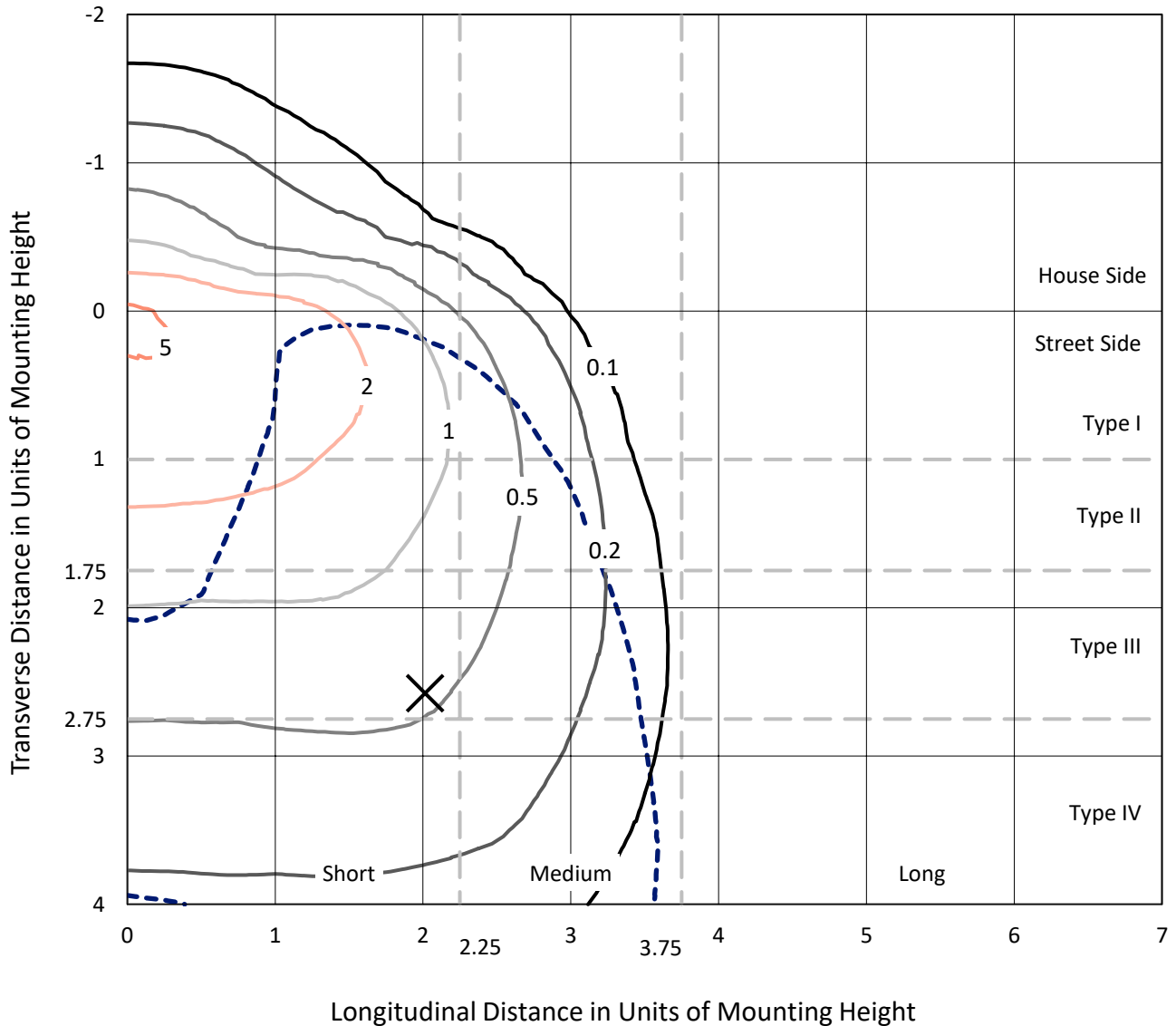
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

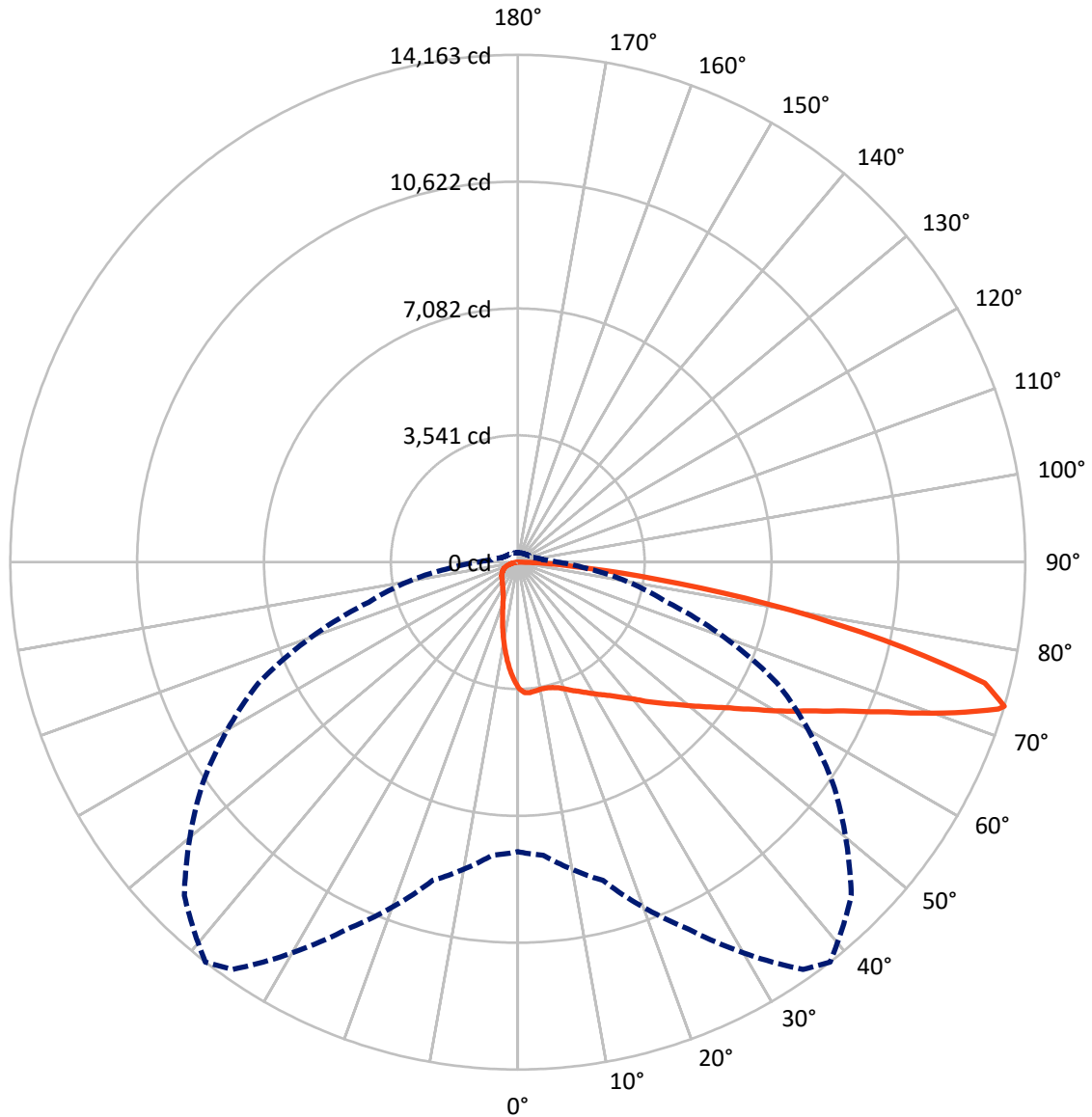
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2697.5	0.0	2697.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17368.5	0.0	17368.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	20066.0	0.0	20066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	1.5
10°-20°	789.1	3.9
20°-30°	1228.8	6.1
30°-40°	1802.3	9.0
40°-50°	2673.5	13.3
50°-60°	3787.8	18.9
60°-70°	4805.0	23.9
70°-80°	3999.8	19.9
80°-90°	672.0	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°	20066.0	100.0
0°-180°	20066.0	100.0

Coefficient of Utilization



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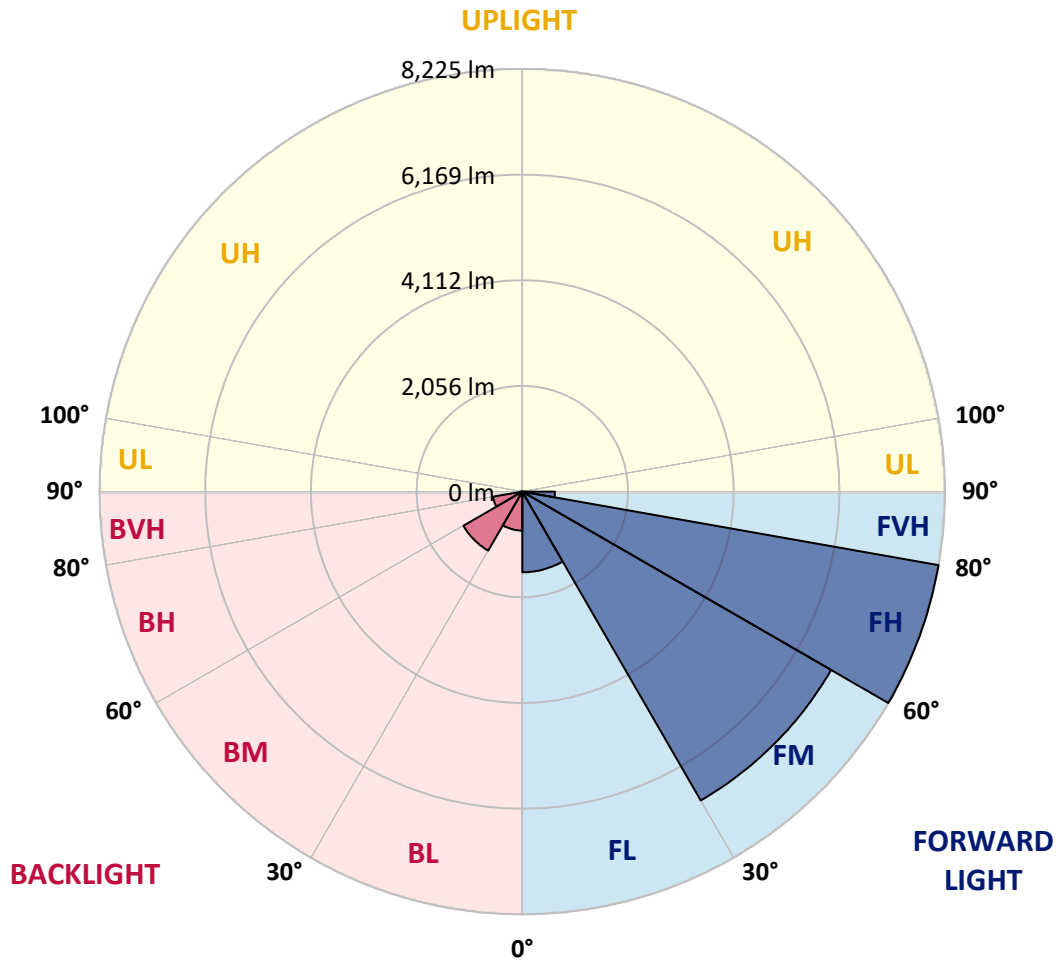
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1568.6	7.8			
FM	(30°-60°)	6939.4	34.6			
FH	(60°-80°)	8225.0	41.0			G4/12000
FVH	(80°-90°)	635.6	3.2			G4/750
BL	(0°-30°)	756.9	3.8	B2/1000		
BM	(30°-60°)	1324.3	6.6	B2/2500		
BH	(60°-80°)	579.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	36.4	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°	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3
2.5°	3666.9	3685.0	3676.0	3663.5	3655.6	3647.6	3636.3	3603.4	3577.4	3549.1	3504.9
5°	3694.1	3705.4	3697.5	3681.6	3663.5	3655.6	3634.0	3591.0	3549.1	3501.5	3435.7
7.5°	3678.2	3682.8	3673.7	3654.4	3638.6	3623.8	3598.9	3551.3	3500.3	3442.5	3356.4
10°	3621.6	3638.6	3638.6	3622.7	3606.8	3598.9	3574.0	3528.7	3482.2	3416.5	3314.5
12.5°	3575.1	3593.2	3608.0	3603.4	3602.3	3602.3	3583.0	3549.1	3494.7	3432.3	3311.1
15°	3543.4	3564.9	3596.6	3614.8	3626.1	3629.5	3621.6	3592.1	3536.6	3464.1	3324.7
17.5°	3536.6	3562.7	3620.4	3660.1	3689.6	3688.4	3686.2	3645.4	3584.2	3509.4	3341.7
20°	3567.2	3601.2	3681.6	3744.0	3787.0	3779.1	3766.6	3713.4	3642.0	3558.1	3357.5
22.5°	3659.0	3694.1	3782.5	3850.5	3892.4	3892.4	3855.0	3784.7	3708.8	3614.8	3379.1
25°	3790.4	3828.9	3923.0	3992.1	4011.4	3996.7	3959.3	3874.3	3787.0	3696.4	3424.4
27.5°	3951.3	3997.8	4085.0	4142.8	4137.2	4125.8	4087.3	3978.5	3891.3	3808.5	3501.5
30°	4151.9	4185.9	4276.5	4290.1	4269.7	4267.5	4213.1	4104.3	4022.7	3959.3	3611.4
32.5°	4341.1	4371.7	4444.2	4449.9	4413.7	4418.2	4367.2	4267.5	4221.0	4198.4	3796.1
35°	4541.7	4557.6	4619.9	4613.1	4589.3	4585.9	4565.5	4470.3	4485.0	4525.8	4057.8
37.5°	4709.4	4741.1	4776.3	4781.9	4780.8	4792.1	4805.7	4760.4	4845.4	4973.4	4401.2
40°	4863.5	4890.7	4942.8	4961.0	5005.2	5027.8	5074.3	5075.4	5271.5	5482.2	4823.9
42.5°	4967.8	5014.2	5111.7	5144.5	5252.2	5320.2	5389.3	5463.0	5747.4	6018.2	5322.4
45°	5058.4	5119.6	5281.7	5383.6	5529.8	5612.5	5758.7	5912.8	6321.9	6676.6	5829.0
47.5°	5195.5	5249.9	5435.8	5615.9	5836.9	5932.1	6150.8	6380.8	6915.7	7304.3	6314.0
50°	5385.9	5418.8	5608.0	5901.5	6183.6	6306.0	6595.0	6927.0	7550.2	7924.2	6740.0
52.5°	5629.5	5643.1	5793.8	6184.8	6556.5	6708.3	7091.3	7478.8	8105.5	8462.4	7077.7
55°	5917.4	5894.7	6012.5	6485.1	6982.5	7180.8	7592.2	8037.5	8729.9	8897.6	7323.6
57.5°	6201.8	6166.6	6260.7	6849.9	7508.3	7747.4	8226.7	8613.1	9287.4	9304.4	7495.8
60°	6503.2	6477.1	6589.3	7278.3	8153.1	8436.4	8879.4	9210.3	9826.8	9587.7	7523.0
62.5°	6812.5	6770.6	6930.4	7759.9	8879.4	9136.7	9566.1	9844.9	10355.9	9693.0	7261.3
65°	7112.8	7093.6	7340.6	8332.1	9706.6	9999.0	10416.0	10605.2	10779.7	9534.4	6612.0
67.5°	7432.4	7470.9	7865.3	9095.9	10785.4	11152.5	11602.4	11424.5	10901.0	8783.1	5568.3
70°	7919.6	7944.6	8554.2	10096.4	12175.8	12618.9	12836.4	11715.7	10316.3	7356.5	4185.9
72.5°	8129.3	8239.2	9169.5	11146.9	13755.4	14026.2	13251.2	11066.4	8593.9	4997.2	2199.5
73°	8082.8	8214.3	9197.8	11306.7	13878.9	14163.3	13162.8	10732.1	7988.8	4303.7	1885.6
75°	7503.8	7665.8	8829.6	11172.9	13638.7	13468.7	11741.8	9146.9	5398.4	1957.0	858.9
77.5°	5920.8	5967.2	6996.1	9022.2	10740.1	10425.1	8787.6	5716.8	2205.1	727.5	487.3
80°	2970.0	3141.1	3943.4	5168.3	7182.0	7078.8	5546.8	2703.7	919.0	427.2	323.0
82.5°	1428.9	1550.2	1920.7	2520.1	3968.3	3874.3	2746.8	1477.6	583.6	249.3	190.4
85°	920.1	1010.8	1222.7	1202.3	1631.7	1558.1	1234.0	1118.4	345.6	130.3	132.6
87.5°	607.4	665.2	797.7	638.0	593.8	537.1	545.0	630.0	68.0	49.9	18.1
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°	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3
2.5°	3486.7	3472.0	3423.3	3375.7	3330.4	3287.3	3259.0	3221.6	3196.6	3203.4	3213.6
5°	3399.5	3366.6	3280.5	3196.6	3117.3	3023.3	2947.3	2886.2	2839.7	2822.7	2819.3
7.5°	3307.7	3252.2	3128.7	2984.7	2849.9	2733.2	2598.3	2531.5	2453.3	2426.1	2417.0
10°	3252.2	3177.4	3004.0	2803.4	2600.6	2406.8	2260.7	2141.7	2034.0	2013.6	2003.4
12.5°	3236.3	3137.7	2904.3	2645.9	2376.2	2138.3	1921.8	1765.5	1661.2	1637.4	1602.3
15°	3227.2	3104.9	2811.4	2487.3	2145.1	1855.0	1627.2	1444.8	1349.6	1286.1	1287.3
17.5°	3219.3	3067.5	2707.1	2313.9	1945.6	1611.4	1359.8	1195.5	1108.2	1074.2	1070.8
20°	3208.0	3023.3	2587.0	2131.5	1717.9	1389.3	1161.5	1039.1	980.2	951.9	950.7
22.5°	3203.4	2980.2	2469.2	1945.6	1516.2	1218.1	1030.0	943.9	906.5	887.3	887.3
25°	3214.8	2949.6	2345.6	1768.9	1337.1	1072.0	939.4	880.5	858.9	848.7	845.3
27.5°	3249.9	2936.0	2223.3	1592.1	1172.8	972.3	878.2	837.4	821.5	813.6	814.7
30°	3316.8	2934.9	2103.1	1417.6	1050.4	896.3	829.5	801.1	788.7	784.1	783.0
32.5°	3424.4	2959.8	1985.3	1273.7	947.3	832.9	784.1	763.7	758.1	754.7	753.6
35°	3606.8	3030.1	1868.6	1142.2	868.0	776.2	741.1	730.9	723.0	726.4	727.5
37.5°	3852.7	3151.3	1757.5	1039.1	807.9	734.3	704.8	695.8	691.2	694.6	698.0
40°	4182.5	3325.8	1664.6	956.4	764.9	699.2	673.1	665.2	660.6	666.3	667.4
42.5°	4546.2	3527.5	1587.6	891.8	729.8	669.7	644.8	635.7	632.3	635.7	636.8
45°	4920.2	3762.1	1547.9	845.3	700.3	648.2	622.1	611.9	604.0	601.7	605.1
47.5°	5288.5	3966.1	1546.8	817.0	676.5	628.9	600.6	589.2	579.0	573.4	572.2
50°	5588.7	4128.1	1574.0	804.5	656.1	607.4	579.0	567.7	554.1	542.8	545.0
52.5°	5815.4	4233.5	1586.4	798.9	644.8	584.7	556.4	546.2	530.3	515.6	515.6
55°	5961.5	4258.4	1555.8	793.2	635.7	560.9	530.3	521.3	505.4	490.7	490.7
57.5°	6011.4	4181.4	1445.9	779.6	626.6	540.5	504.3	496.3	483.9	469.1	466.9
60°	5895.8	3920.7	1253.3	738.8	608.5	519.0	475.9	472.5	468.0	455.5	454.4
62.5°	5450.5	3367.7	1043.6	685.6	577.9	496.3	449.9	455.5	458.9	452.1	451.0
65°	4709.4	2734.3	891.8	611.9	537.1	464.6	421.5	436.3	445.3	445.3	443.1
67.5°	3819.9	2099.7	751.3	548.4	486.1	421.5	389.8	401.1	407.9	405.7	411.3
70°	2715.0	1422.1	611.9	475.9	421.5	372.8	349.0	349.0	344.5	342.2	342.2
72.5°	1316.7	812.5	496.3	397.7	359.2	318.4	299.2	291.2	282.2	281.0	275.4
73°	1100.3	728.6	473.7	383.0	344.5	310.5	289.0	276.5	270.8	266.3	265.2
75°	669.7	553.0	395.5	323.0	293.5	267.4	248.2	236.8	231.2	227.8	226.6
77.5°	440.8	412.5	307.1	247.0	224.4	208.5	200.6	189.2	185.8	181.3	181.3
80°	328.6	315.0	219.8	174.5	160.9	147.3	145.0	142.8	133.7	128.0	125.8
82.5°	211.9	224.4	149.6	116.7	102.0	90.7	91.8	95.2	86.1	78.2	75.9
85°	150.7	162.0	90.7	53.3	43.1	37.4	41.9	37.4	38.5	30.6	24.9
87.5°	24.9	43.1	15.9	6.8	3.4	2.3	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)