

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: P652275

Luminaire Tested: **GALN-SA3B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12108.7 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

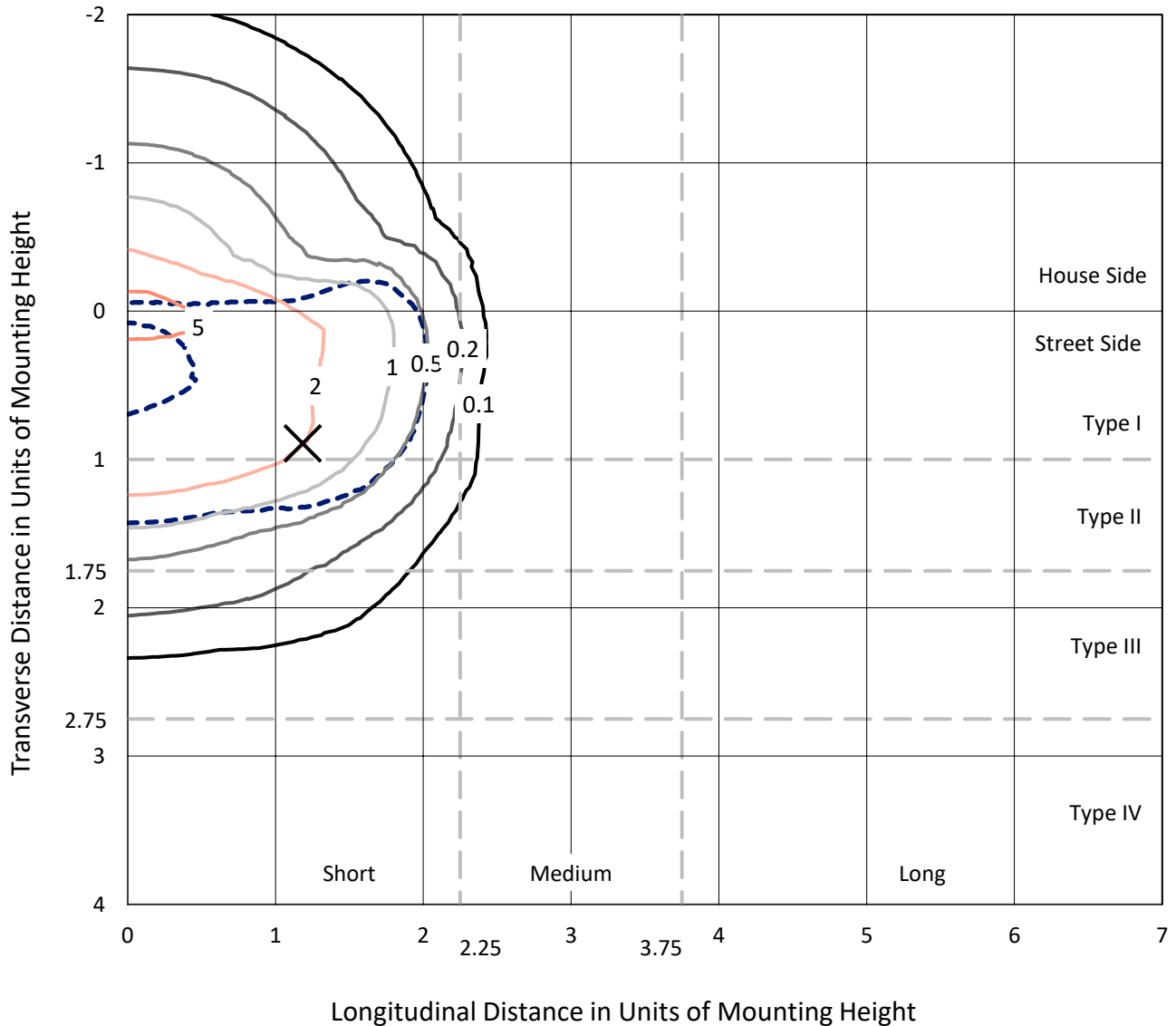
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

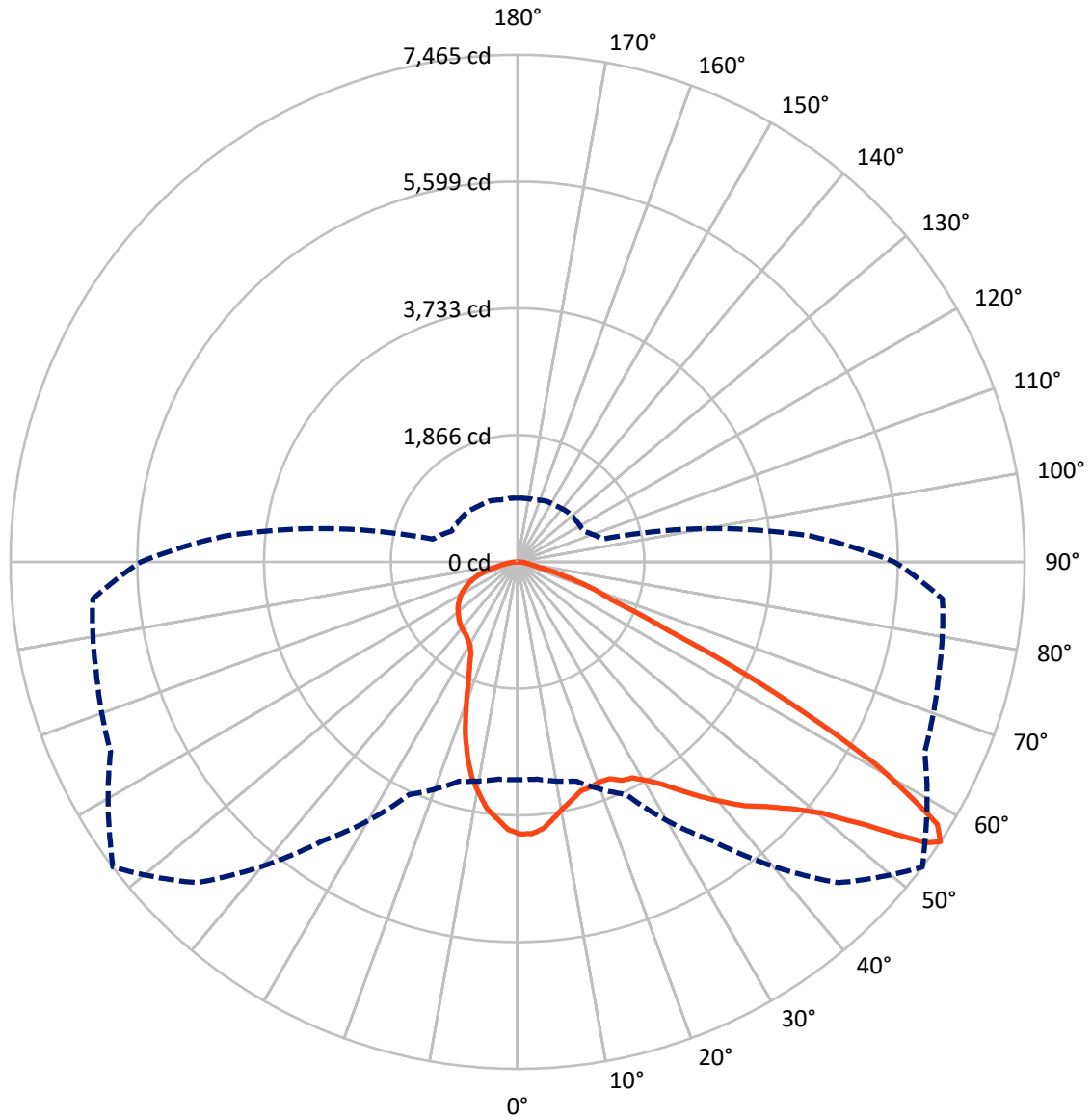
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3533.6	0.0	3533.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	8575.1	0.0	8575.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	12108.7	0.0	12108.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.6	2.9
10°-20°	885.8	7.3
20°-30°	1306.1	10.8
30°-40°	1866.2	15.4
40°-50°	2568.6	21.2
50°-60°	3035.4	25.1
60°-70°	1617.7	13.4
70°-80°	410.4	3.4
80°-90°	64.0	0.5
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°	12108.7	100.0
0°-180°	12108.7	100.0

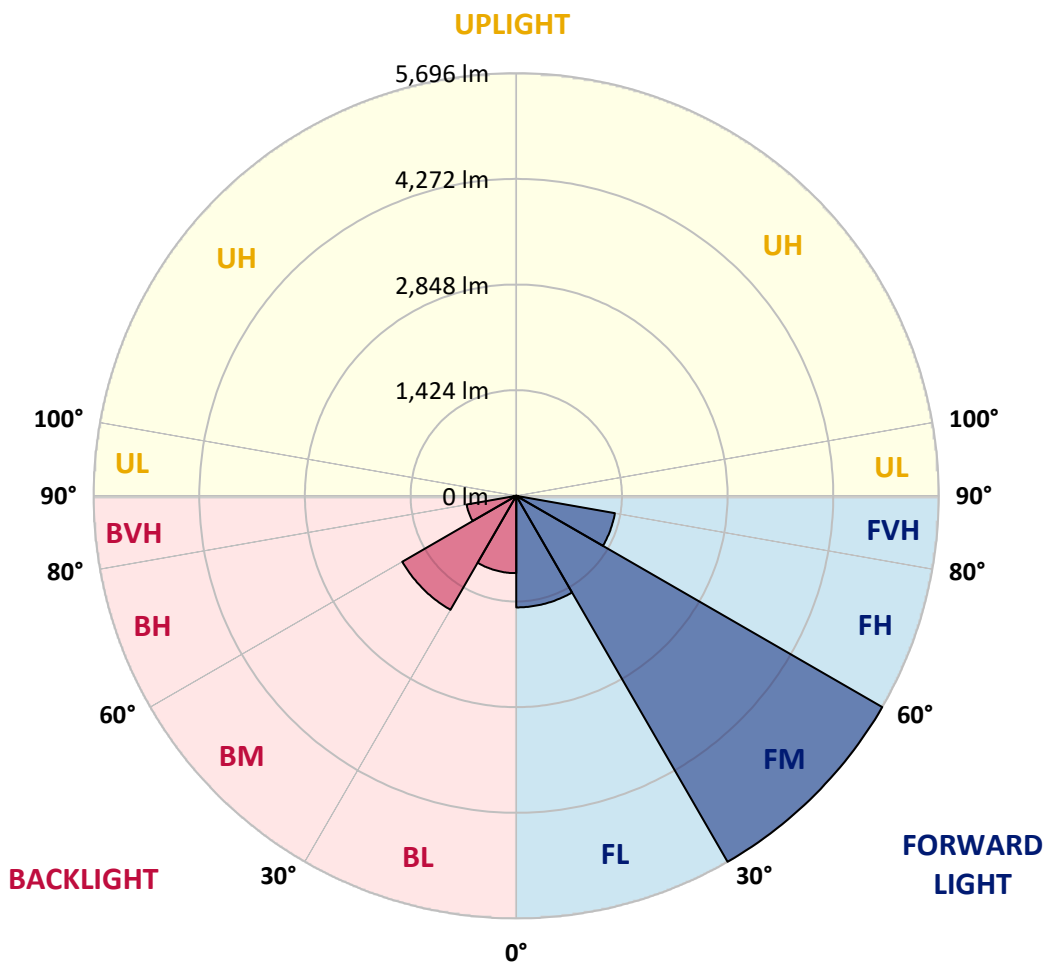


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.3	12.4			
FM (30°-60°)	5695.7	47.0			
FH (60°-80°)	1349.4	11.1			G1/1800
FVH (80°-90°)	25.7	0.2			G1/100
BL (0°-30°)	1042.2	8.6	B3/2500		
BM (30°-60°)	1774.4	14.7	B2/2500		
BH (60°-80°)	678.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	38.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0
2.5°	3956.3	3922.2	3942.4	3934.6	3998.3	4017.0	4007.6	4015.4	4051.1	4034.0	3998.3
5°	3697.0	3745.1	3754.4	3777.7	3814.9	3888.0	3945.5	3961.0	3978.1	4057.3	4049.5
7.5°	3460.8	3493.4	3476.4	3544.7	3625.5	3743.5	3813.4	3825.9	3982.7	4026.2	4058.8
10°	3311.7	3279.1	3356.8	3375.4	3467.0	3602.2	3686.0	3737.3	3880.2	4052.6	4072.8
12.5°	3173.4	3162.6	3209.2	3262.0	3364.5	3504.3	3589.7	3609.9	3830.5	4012.2	4107.0
15°	3070.9	3058.5	3105.1	3143.9	3263.6	3387.8	3496.5	3554.0	3776.2	3988.9	4077.5
17.5°	2990.2	2988.6	3015.0	3085.0	3207.7	3311.7	3487.2	3490.3	3748.2	4024.7	4102.3
20°	2985.5	2984.0	2988.6	3066.3	3178.1	3305.5	3457.7	3485.7	3748.2	3999.8	4103.9
22.5°	3024.3	2999.5	3027.4	3077.1	3158.0	3316.4	3468.6	3530.7	3838.2	4122.6	4173.8
25°	3086.5	3092.7	3108.3	3125.3	3171.9	3341.2	3564.9	3616.1	3943.9	4228.1	4270.1
27.5°	3199.8	3196.7	3202.9	3212.3	3252.7	3364.5	3603.8	3735.7	4164.5	4416.1	4374.2
30°	3366.1	3355.2	3380.1	3412.7	3375.4	3439.1	3732.7	3832.1	4369.5	4605.7	4490.7
32.5°	3516.7	3557.1	3603.8	3617.7	3572.7	3585.1	3903.5	4004.5	4540.4	4838.6	4633.6
35°	3704.7	3737.3	3799.5	3842.9	3835.2	3797.9	4136.5	4270.1	4787.4	5009.5	4784.3
37.5°	3888.0	3926.8	4029.3	4158.2	4086.8	4069.8	4385.1	4495.3	4863.5	5101.2	4894.5
40°	4183.1	4181.5	4358.7	4425.4	4489.1	4459.7	4642.9	4680.2	4903.9	5081.0	4897.6
42.5°	4529.5	4507.8	4688.0	4792.0	4874.4	4877.5	4911.6	4899.2	4922.5	4978.5	4865.0
45°	4858.8	4905.4	5087.1	5273.6	5355.9	5365.2	5138.4	5115.1	4955.1	4948.9	4802.9
47.5°	5261.1	5272.0	5421.1	5666.6	5857.6	5792.4	5432.0	5380.7	5098.1	5146.2	4907.0
50°	5284.4	5365.2	5498.8	5787.7	6374.9	6357.8	5812.6	5716.3	5327.9	5425.8	5197.5
52.5°	4796.7	4778.1	4936.5	5408.7	6336.0	6920.1	6443.2	6213.3	5821.9	5747.3	5668.1
55°	3655.0	3698.5	3838.2	4315.2	5501.9	6927.8	7302.2	7114.3	6350.1	6222.6	6131.0
56°	3206.1	3212.3	3344.3	3779.3	5020.3	6680.9	7465.3	7313.1	6612.5	6418.3	6278.6
57.5°	2657.7	2622.0	2690.4	2928.0	4237.5	6159.0	7286.7	7435.8	6920.1	6629.6	6435.4
60°	2092.3	2084.6	2056.6	2100.1	2677.9	4639.8	6065.8	6401.3	6889.1	6430.8	6163.6
62.5°	1708.7	1669.8	1725.7	1787.9	1860.9	2878.3	4262.4	4459.7	5469.3	5133.8	4630.5
65°	1325.0	1306.3	1376.2	1578.2	1621.7	1828.2	2427.9	2580.1	3229.4	3171.9	2792.9
67.5°	911.8	914.9	975.5	1283.0	1503.6	1485.0	1486.6	1565.8	1685.4	1252.0	1090.4
70°	577.9	576.3	608.9	826.4	1210.0	1222.5	1160.3	1137.0	1078.0	652.4	691.2
72.5°	371.2	360.4	377.4	456.7	626.0	723.8	745.6	759.6	624.4	512.6	556.1
75°	209.7	198.8	192.6	212.8	247.0	285.8	313.8	323.1	362.0	388.4	411.7
77.5°	63.7	57.4	69.9	93.2	122.7	164.7	200.4	206.6	243.9	274.9	298.2
80°	27.9	31.0	43.5	62.1	87.0	116.5	141.4	150.7	175.5	198.8	205.0
82.5°	17.1	18.7	29.5	42.0	60.6	82.3	101.0	104.0	128.9	147.6	152.2
85°	6.2	7.7	15.6	24.9	38.9	52.8	52.8	57.4	52.8	52.8	57.4
87.5°	0.0	0.0	1.5	3.1	3.1	4.6	6.2	6.2	7.7	9.3	10.8
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°	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0
2.5°	4017.0	4009.1	3996.7	3951.7	3947.0	3933.0	3855.4	3842.9	3855.4	3818.1	3821.2
5°	4009.1	4032.4	3939.2	3894.2	3810.3	3749.8	3679.9	3644.1	3580.4	3540.0	3585.1
7.5°	4043.4	4034.0	3917.5	3819.7	3693.8	3540.0	3417.3	3347.4	3235.6	3204.5	3227.8
10°	4030.9	3981.2	3844.5	3715.5	3477.9	3342.8	3143.9	2951.3	2845.7	2791.4	2783.5
12.5°	4013.8	3999.8	3771.5	3549.4	3299.2	3015.0	2735.4	2553.7	2381.3	2306.7	2317.5
15°	4034.0	3915.9	3634.8	3353.7	3021.2	2648.4	2347.1	2112.5	1992.9	1944.8	1944.8
17.5°	4024.7	3875.6	3569.5	3134.7	2713.7	2272.6	1941.7	1800.3	1750.6	1750.6	1764.6
20°	4029.3	3902.0	3437.5	2915.6	2350.2	1913.7	1672.9	1621.7	1643.4	1651.2	1659.0
22.5°	4055.7	3814.9	3308.6	2674.8	2013.1	1637.2	1519.2	1520.7	1559.6	1601.5	1593.7
25°	4088.4	3780.8	3151.7	2435.6	1755.3	1502.1	1464.8	1460.1	1489.7	1511.4	1514.5
27.5°	4060.4	3721.8	2991.7	2137.4	1544.0	1412.0	1404.2	1407.3	1416.7	1460.1	1446.2
30°	4152.0	3738.8	2791.4	1887.3	1427.5	1382.4	1373.2	1368.5	1382.4	1394.9	1384.0
32.5°	4265.5	3678.3	2642.3	1646.5	1370.1	1360.7	1342.1	1335.8	1343.7	1331.2	1337.4
35°	4315.2	3667.4	2448.1	1474.1	1325.0	1317.3	1306.3	1304.8	1306.3	1295.5	1286.1
37.5°	4343.1	3718.6	2226.0	1394.9	1297.0	1304.8	1279.9	1276.8	1248.9	1255.1	1259.7
40°	4391.3	3639.4	2045.7	1318.8	1279.9	1264.4	1242.7	1238.0	1219.4	1208.5	1219.4
42.5°	4321.4	3616.1	1868.6	1286.1	1255.1	1238.0	1222.5	1196.1	1189.8	1180.5	1174.3
45°	4265.5	3482.6	1710.3	1245.8	1225.6	1216.3	1186.7	1158.8	1135.5	1144.8	1130.8
47.5°	4307.3	3436.0	1553.3	1211.6	1185.2	1174.3	1144.8	1123.1	1099.8	1088.9	1085.8
50°	4475.1	3522.9	1421.3	1186.7	1151.0	1144.8	1106.0	1081.1	1059.4	1051.6	1054.7
52.5°	4875.9	3760.6	1331.2	1135.5	1118.4	1090.4	1068.7	1037.6	1023.7	998.8	1014.3
55°	5383.8	4147.4	1307.9	1087.3	1078.0	1053.2	1023.7	1000.4	974.0	953.8	949.1
56°	5547.0	4332.2	1289.3	1068.7	1053.2	1039.1	1000.4	986.3	944.4	939.7	936.6
57.5°	5679.0	4495.3	1292.4	1033.0	1017.4	1005.0	981.7	947.6	919.5	902.5	910.2
60°	5380.7	4207.9	1233.3	978.6	975.5	952.2	919.5	904.1	869.8	849.7	845.0
62.5°	3999.8	2856.5	1000.4	908.7	907.2	882.3	845.0	828.0	821.7	793.7	793.7
65°	2303.6	1791.0	865.2	851.3	838.8	813.9	776.7	762.7	747.1	737.8	730.1
67.5°	983.3	928.9	786.0	784.4	770.4	739.4	702.1	680.4	660.2	641.5	650.8
70°	713.0	723.8	709.9	702.1	685.0	646.2	613.6	587.2	556.1	543.7	553.0
72.5°	565.4	588.7	608.9	610.5	590.3	545.2	509.5	473.7	439.6	422.5	430.3
75°	428.7	444.2	464.5	469.1	439.6	408.6	374.3	337.1	310.7	290.5	293.6
77.5°	309.2	306.0	324.6	321.5	307.6	285.8	254.7	220.6	191.1	172.4	174.0
80°	211.3	215.9	226.8	225.2	208.1	194.2	170.9	142.9	121.2	105.6	102.5
82.5°	147.6	155.3	164.7	156.8	142.9	128.9	111.9	91.7	74.6	62.1	59.0
85°	52.8	60.6	69.9	74.6	79.2	76.1	63.7	51.3	37.3	31.0	29.5
87.5°	10.8	12.4	14.0	14.0	14.0	12.4	10.8	10.8	9.3	4.6	4.6
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)