

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: P647320

Luminaire Tested: **GALN-SA3D-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18259.6 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

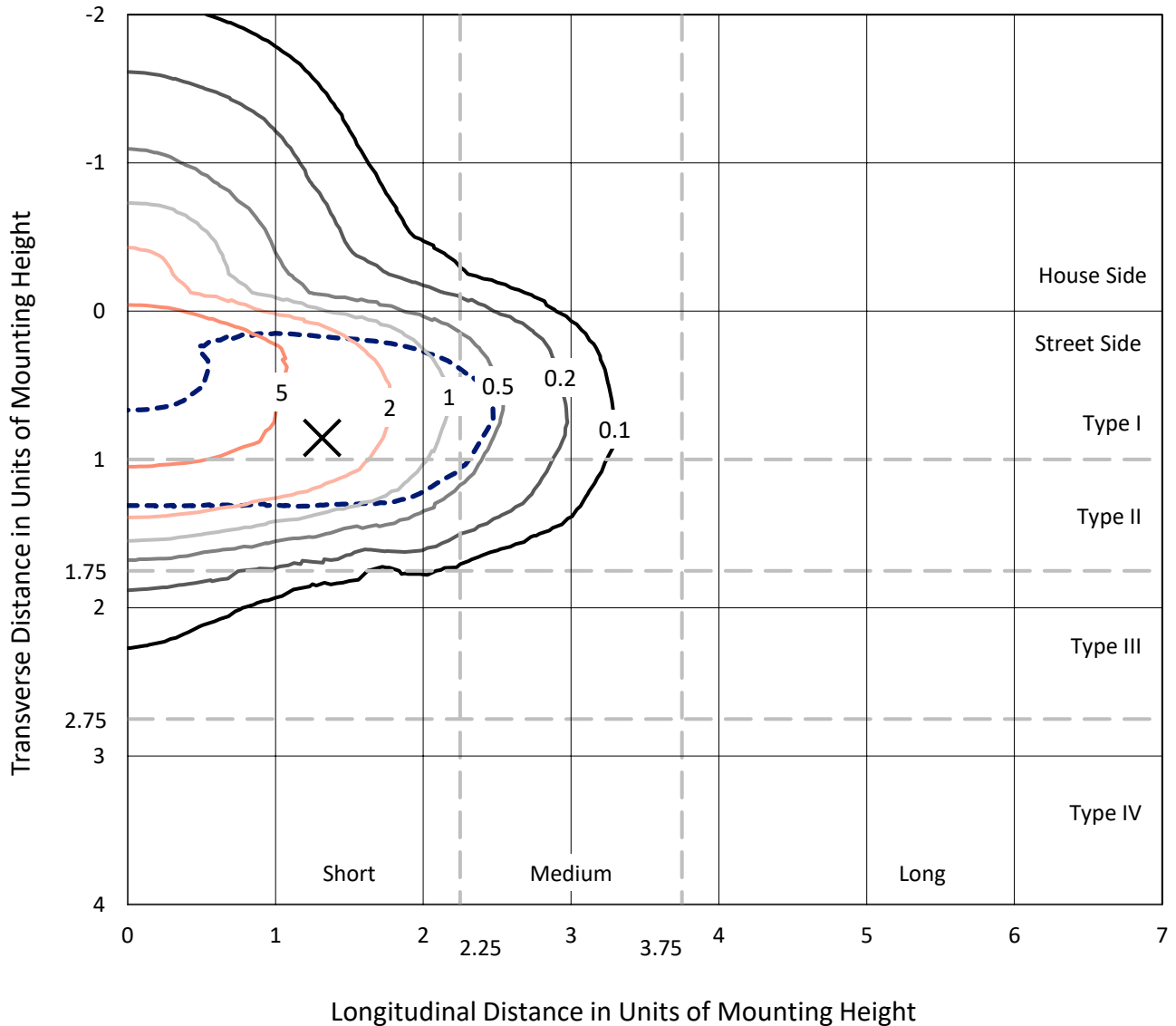
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

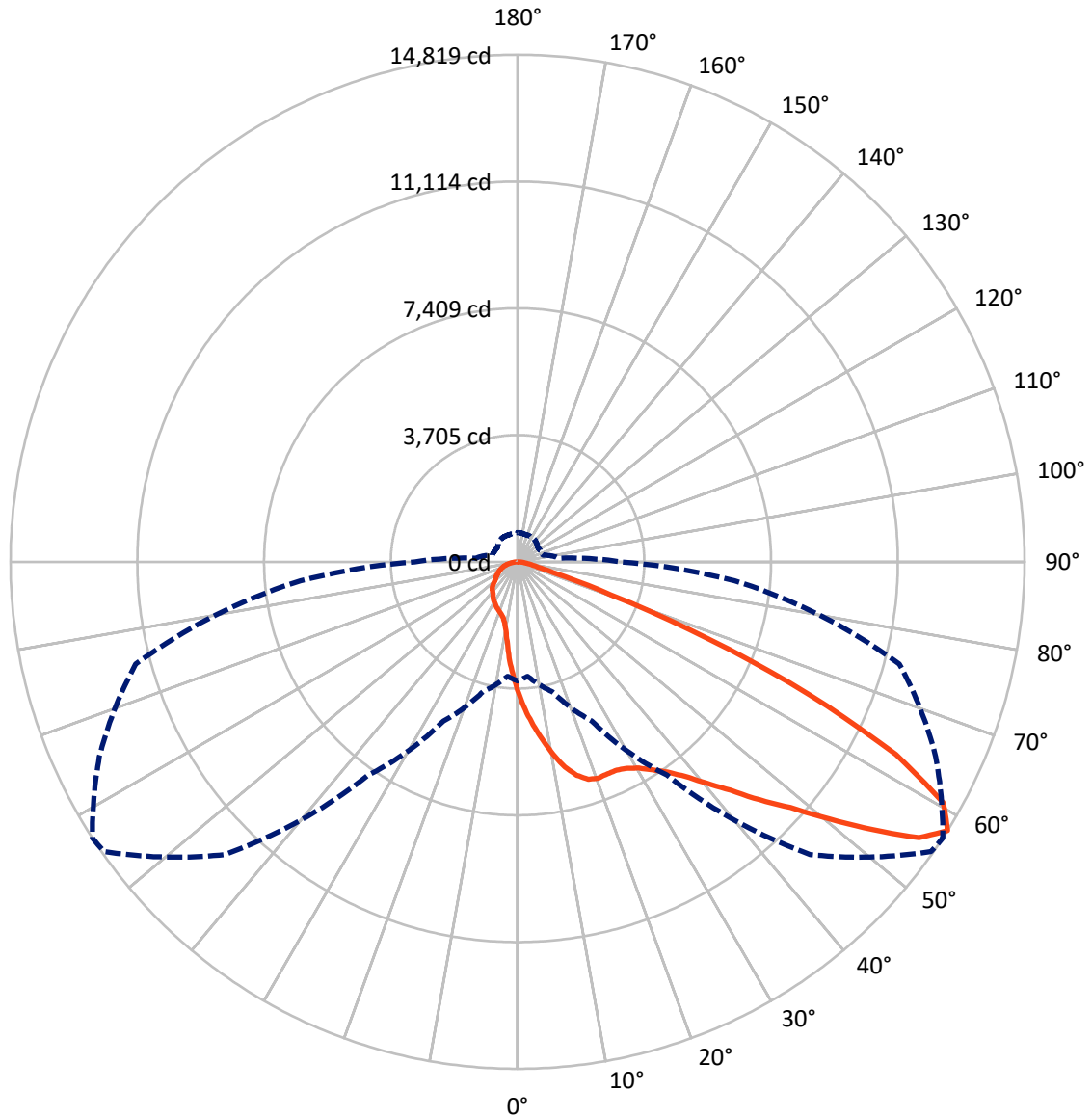
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2776.8	0.0	2776.8
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	15482.8	0.0	15482.8
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	18259.6	0.0	18259.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.7	2.0
10°-20°	1086.5	6.0
20°-30°	1804.2	9.9
30°-40°	2717.7	14.9
40°-50°	4080.4	22.3
50°-60°	4573.6	25.0
60°-70°	2676.7	14.7
70°-80°	791.7	4.3
80°-90°	160.0	0.9
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°	18259.6	100.0
0°-180°	18259.6	100.0

**Coefficient of Utilization**



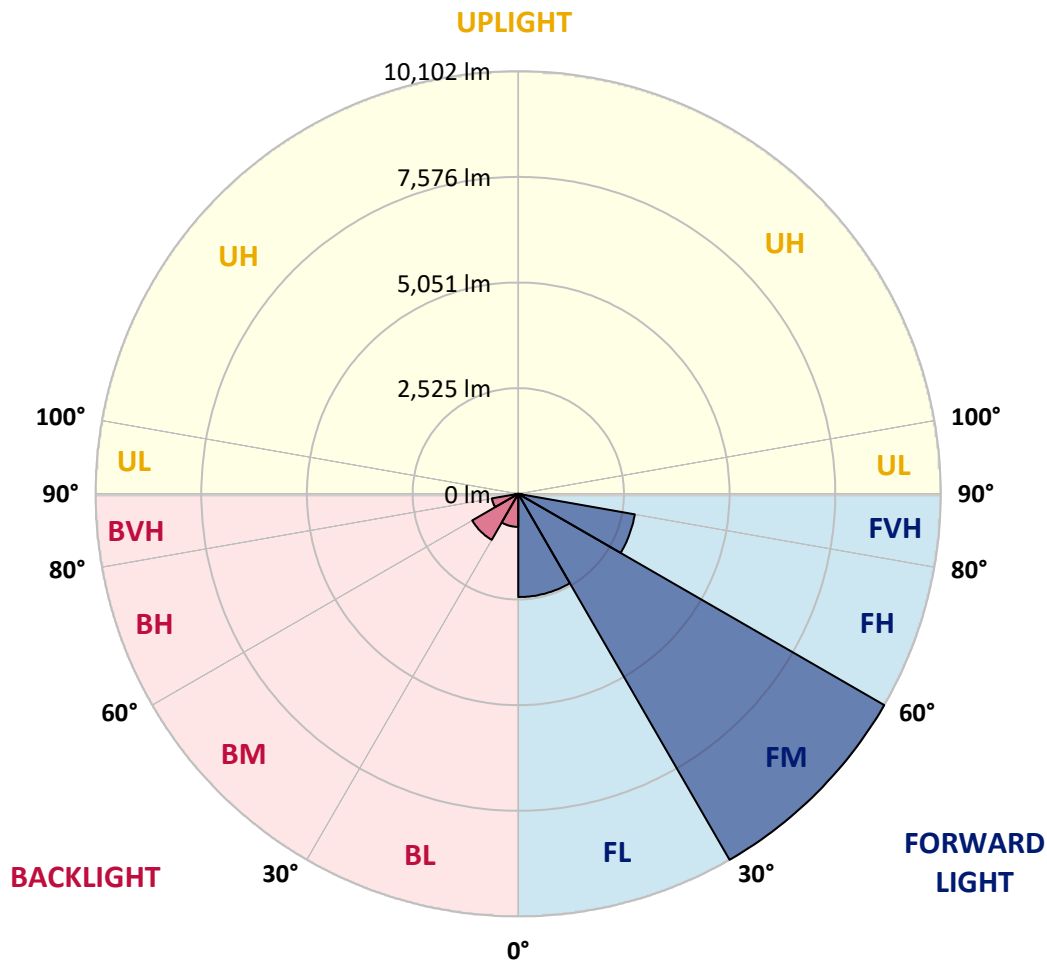
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.3	13.5			
FM (30°-60°)	10102.0	55.3			
FH (60°-80°)	2829.5	15.5			G2/5000
FVH (80°-90°)	83.0	0.5			G1/100
BL (0°-30°)	791.2	4.3	B2/1000		
BM (30°-60°)	1269.6	7.0	B2/2500		
BH (60°-80°)	638.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	77.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2
2.5°	4766.7	4714.7	4673.7	4637.7	4590.7	4463.8	4336.9	4334.8	4233.9	4078.0	3918.1
5°	5543.3	5473.3	5482.3	5370.4	5258.4	5074.5	4805.7	4791.6	4576.8	4284.9	3988.1
7.5°	6049.1	6050.0	6022.1	5958.1	5837.1	5628.3	5323.4	5254.4	4955.6	4512.8	4068.0
10°	6023.1	6050.0	6097.0	6152.0	6189.0	6086.0	5808.1	5724.2	5335.4	4788.7	4156.9
12.5°	5677.2	5719.2	5786.1	5924.1	6147.0	6316.9	6222.0	6154.0	5775.2	5063.5	4254.9
15°	5461.3	5486.3	5523.3	5616.2	5856.1	6262.9	6508.8	6472.8	6190.0	5374.4	4364.8
17.5°	5395.3	5420.3	5432.4	5489.3	5660.2	6077.0	6621.8	6685.7	6557.8	5660.2	4475.8
20°	5461.3	5473.3	5473.3	5507.3	5641.3	5968.1	6616.7	6745.7	6859.6	6003.0	4579.8
22.5°	5634.2	5639.2	5632.3	5644.3	5744.2	5998.1	6569.8	6729.7	7103.5	6293.9	4660.7
25°	5915.1	5923.1	5877.1	5849.2	5922.1	6130.0	6595.8	6742.7	7294.4	6571.8	4714.7
27.5°	6233.9	6244.0	6188.0	6123.0	6157.0	6292.9	6697.7	6829.6	7437.3	6845.7	4748.7
30°	6624.7	6628.7	6534.8	6456.9	6434.9	6535.8	6871.6	6994.6	7615.3	7168.5	4799.6
32.5°	7024.5	7054.5	6933.6	6823.7	6786.7	6817.7	7128.5	7247.4	7827.2	7515.3	4881.6
35°	7568.3	7573.3	7428.4	7294.4	7172.5	7212.4	7457.4	7543.3	8120.0	7916.1	4997.6
37.5°	8246.9	8292.9	8093.0	7843.2	7693.2	7635.3	7855.1	7949.1	8530.9	8407.9	5172.5
40°	9000.6	9017.6	8846.6	8690.8	8416.9	8249.0	8400.9	8502.8	9037.5	8994.6	5375.4
42.5°	9474.4	9511.3	9524.3	9508.4	9302.4	9020.6	9078.6	9126.6	9637.3	9545.3	5583.3
45°	9634.3	9689.2	9875.2	10269.0	10291.0	10013.1	9878.2	9924.1	10291.0	10101.1	5782.1
47.5°	9369.5	9463.3	9806.2	10613.8	11218.5	11239.5	10832.7	10731.7	10886.7	10561.8	5926.1
50°	8684.7	8704.8	9229.5	10398.9	11653.3	12412.0	11991.2	11803.3	11452.4	10902.6	6025.0
52.5°	7625.2	7648.3	8088.1	9400.4	11385.4	13231.5	13346.5	13010.6	12027.1	11167.5	6090.0
55°	5660.2	5793.2	6276.9	7545.3	10116.0	13154.6	14424.0	14233.1	12721.8	11377.5	6192.0
57.5°	3480.3	3358.4	3932.1	5133.5	7608.3	12097.1	14756.8	14818.7	13486.4	11553.3	6362.9
60°	1601.2	1625.2	1862.1	2647.7	4637.7	9463.3	13899.2	14291.0	13909.2	11547.4	6405.9
62.5°	1103.5	1081.5	1021.5	1162.4	2115.0	5985.1	11740.2	12404.0	13061.6	11188.5	6235.0
65°	986.5	964.5	848.6	809.6	971.5	2608.7	8534.9	9372.4	10997.6	10283.0	5809.2
67.5°	921.5	891.6	771.6	695.7	693.7	1038.5	5032.6	6041.1	8157.0	8693.7	5033.5
70°	853.5	829.6	710.7	626.7	590.7	652.7	2211.9	2895.6	5296.4	6264.9	3921.1
72.5°	785.6	757.6	650.7	560.7	513.7	488.7	847.6	1102.5	2992.5	3756.1	2403.8
75°	686.7	672.7	581.7	507.8	456.8	394.8	537.8	613.7	1431.3	1725.2	1206.4
77.5°	600.7	585.7	516.8	443.8	406.8	320.9	381.8	416.8	603.7	699.7	544.7
80°	439.8	454.8	435.8	391.8	362.8	251.9	256.9	285.9	358.8	396.8	332.9
82.5°	278.8	306.9	335.8	301.8	274.8	198.9	177.9	188.9	244.8	259.9	147.9
85°	117.0	118.9	194.9	183.9	156.9	117.9	107.0	112.9	130.9	136.9	69.0
87.5°	44.9	44.0	69.0	64.0	48.9	34.0	34.0	38.0	52.0	48.0	22.0
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°	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2
2.5°	3849.1	3778.1	3637.2	3462.3	3334.4	3190.4	3063.5	2972.6	2938.6	2922.5	2892.6
5°	3846.1	3706.2	3414.3	3108.5	2862.6	2610.8	2397.9	2259.9	2247.9	2155.9	2147.0
7.5°	3847.1	3633.2	3168.5	2718.7	2343.8	2086.0	1910.1	1864.1	1809.1	1795.1	1802.2
10°	3850.1	3540.3	2904.6	2332.9	1970.0	1801.1	1735.1	1717.2	1719.2	1725.2	1726.1
12.5°	3854.1	3450.3	2630.7	2040.0	1760.1	1690.2	1683.2	1699.2	1716.2	1729.2	1732.2
15°	3859.1	3347.3	2363.9	1804.1	1655.2	1649.2	1672.2	1699.2	1723.1	1742.2	1745.2
17.5°	3853.1	3227.4	2139.9	1659.2	1597.2	1626.2	1664.2	1698.2	1720.2	1738.2	1740.1
20°	3839.1	3093.5	1924.1	1557.2	1561.2	1608.2	1649.2	1681.2	1705.1	1714.1	1721.2
22.5°	3785.2	2933.6	1736.1	1478.3	1518.2	1583.2	1632.2	1651.2	1624.2	1605.2	1610.2
25°	3693.2	2725.7	1561.2	1414.3	1479.2	1548.2	1598.2	1552.2	1530.2	1522.2	1526.2
27.5°	3578.2	2497.8	1429.3	1347.3	1429.3	1509.2	1495.3	1487.3	1477.3	1464.3	1467.3
30°	3454.3	2274.8	1317.3	1295.4	1375.3	1421.3	1427.3	1440.3	1429.3	1409.3	1417.3
32.5°	3339.3	2065.0	1232.4	1251.4	1337.4	1330.3	1375.3	1390.3	1339.3	1272.4	1275.4
35°	3241.4	1870.1	1168.4	1208.4	1272.4	1275.4	1320.4	1268.4	1213.4	1181.4	1183.4
37.5°	3167.5	1718.1	1126.4	1171.4	1189.5	1227.4	1203.4	1176.5	1169.4	1147.4	1148.4
40°	3123.5	1585.3	1099.5	1142.5	1139.4	1165.4	1088.4	1115.5	1125.5	1118.4	1119.5
42.5°	3079.5	1491.3	1071.5	1102.5	1101.4	1050.5	1033.5	1056.5	1082.5	1085.5	1083.4
45°	3044.5	1418.3	1042.5	1041.5	1061.5	981.5	976.6	990.5	1027.5	1045.5	1044.5
47.5°	3005.5	1357.3	998.5	970.5	976.6	938.5	930.5	936.5	981.5	1010.5	1018.5
50°	2956.5	1296.3	943.5	905.5	880.6	898.6	900.5	901.5	946.6	979.5	986.5
52.5°	2917.5	1250.4	880.6	852.6	822.6	862.6	877.6	879.5	906.6	933.6	938.5
55°	2940.6	1224.4	818.6	798.6	771.6	825.6	854.6	858.6	864.6	884.6	887.5
57.5°	3009.5	1230.4	768.6	742.7	722.6	781.6	830.6	833.6	829.6	853.5	857.5
60°	3030.5	1227.4	731.6	680.7	668.7	734.6	795.6	801.6	800.6	835.6	842.6
62.5°	2942.6	1189.5	694.7	628.7	620.7	686.7	746.7	770.6	775.6	825.6	834.6
65°	2735.6	1111.5	645.7	573.7	573.7	635.7	699.7	732.7	746.7	813.6	823.6
67.5°	2462.8	1019.5	595.7	526.7	524.8	586.7	649.7	683.6	705.6	796.6	802.6
70°	2044.0	895.6	533.8	475.8	475.8	531.7	588.7	629.7	661.7	764.6	764.6
72.5°	1400.3	744.6	458.8	417.8	418.8	470.7	528.8	574.7	612.7	700.6	702.7
75°	885.6	581.7	376.8	355.8	359.8	408.8	468.8	516.8	592.7	692.6	695.7
77.5°	470.7	408.8	299.9	294.9	299.9	344.8	411.8	477.8	594.7	600.7	590.7
80°	304.8	289.9	236.9	226.9	228.9	277.9	366.8	453.7	477.8	483.7	461.7
82.5°	165.9	183.9	168.0	157.9	157.9	216.9	312.8	360.8	342.8	284.9	271.9
85°	70.9	86.0	87.0	76.0	73.0	134.0	209.9	196.9	182.9	174.9	172.9
87.5°	20.0	28.0	28.0	21.0	16.0	37.0	42.0	12.0	0.0	1.0	2.0
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)