

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: P458952

Luminaire Tested: **GALN-SA4D-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458952
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-SA4D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 28787 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

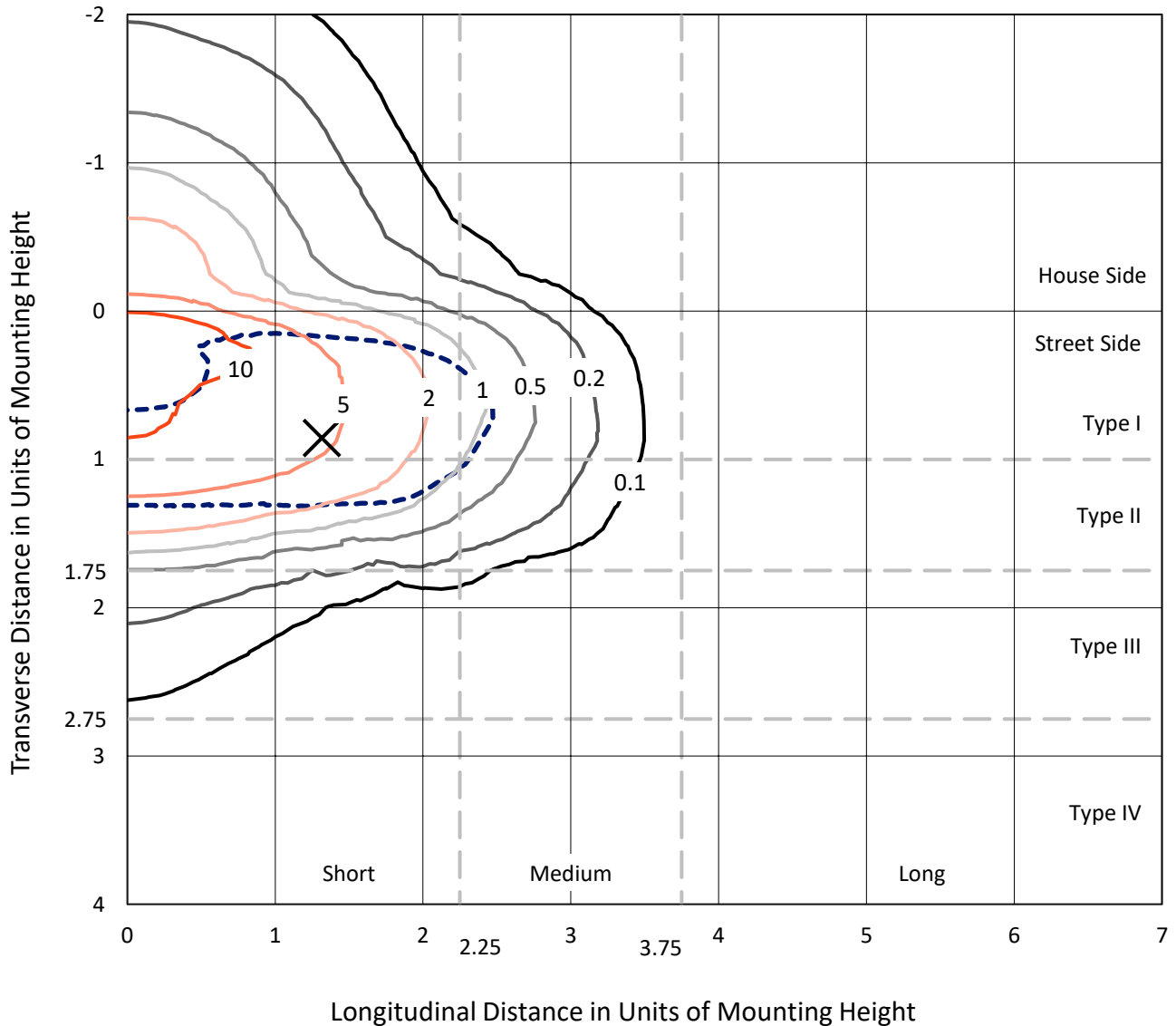
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

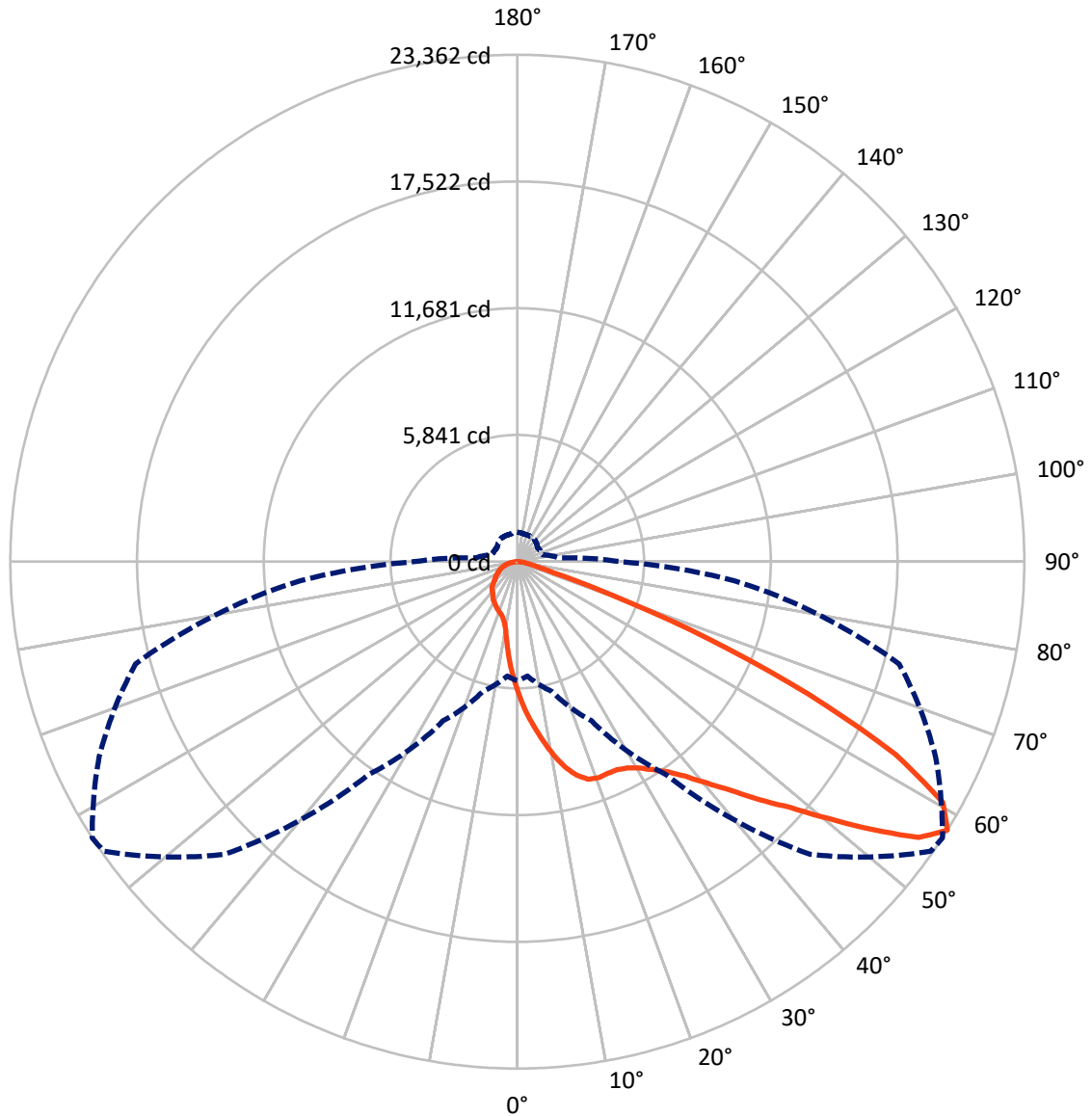
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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
House Side	Lumens	4377.7	0.0	4377.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	24409.3	0.0	24409.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	28787.0	0.0	28787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.3	2.0
10°-20°	1713.0	6.0
20°-30°	2844.5	9.9
30°-40°	4284.6	14.9
40°-50°	6432.9	22.3
50°-60°	7210.4	25.0
60°-70°	4219.9	14.7
70°-80°	1248.2	4.3
80°-90°	252.3	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°	28787.0	100.0
0°-180°	28787.0	100.0

Coefficient of Utilization



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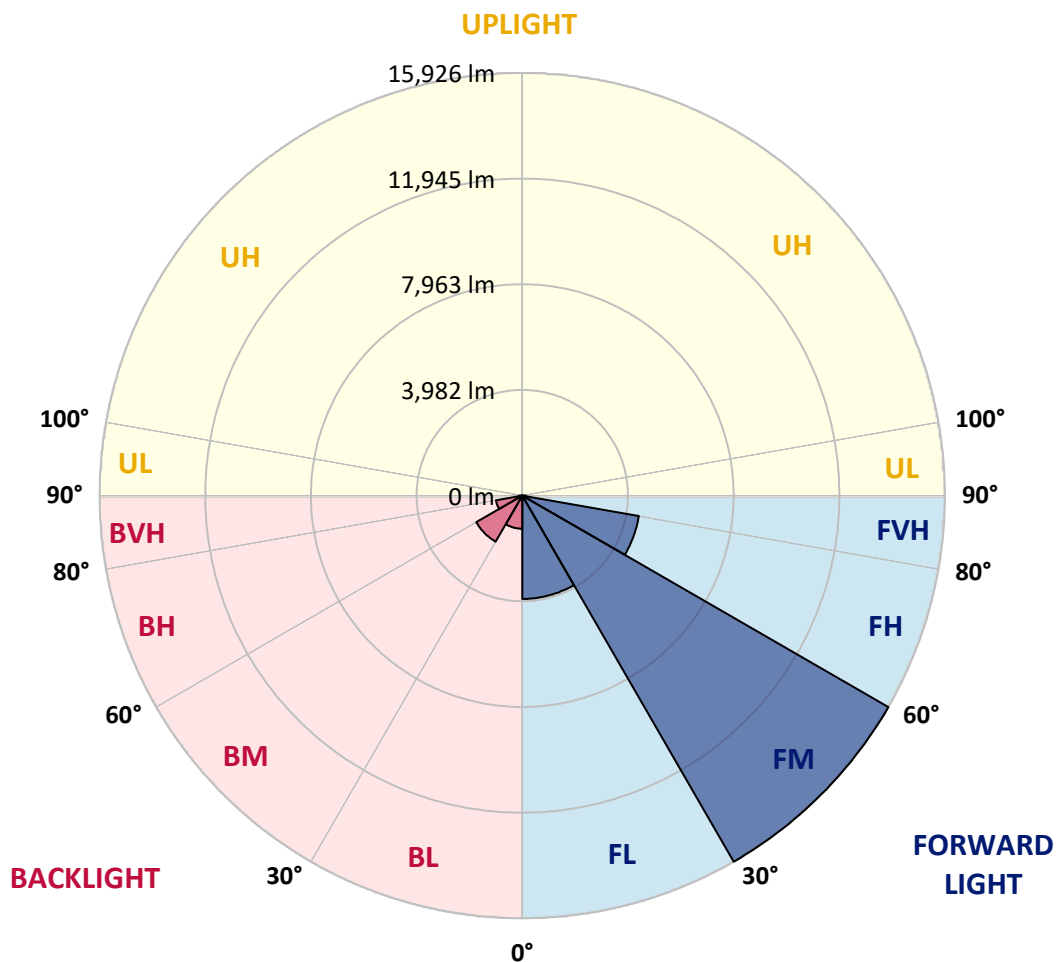
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3891.3	13.5			
FM	(30°-60°)	15926.2	55.3			
FH	(60°-80°)	4460.8	15.5			G2/5000
FVH	(80°-90°)	130.9	0.5			G2/225
BL	(0°-30°)	1247.4	4.3	B3/2500		
BM	(30°-60°)	2001.7	7.0	B2/2500		
BH	(60°-80°)	1007.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	121.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8
2.5°	7514.9	7432.9	7368.3	7311.6	7237.5	7037.4	6837.3	6834.1	6675.0	6429.2	6177.0
5°	8739.2	8628.9	8643.1	8466.6	8290.1	8000.2	7576.3	7554.3	7215.5	6755.3	6287.3
7.5°	9536.6	9538.2	9494.0	9393.2	9202.5	8873.2	8392.6	8283.8	7812.7	7114.6	6413.4
10°	9495.6	9538.2	9612.2	9698.9	9757.2	9594.9	9156.8	9024.5	8411.5	7549.5	6553.6
12.5°	8950.4	9016.6	9122.2	9339.6	9691.0	9958.9	9809.2	9702.0	9104.8	7982.9	6708.1
15°	8610.0	8649.4	8707.7	8854.3	9232.5	9873.8	10261.4	10204.7	9758.8	8472.9	6881.4
17.5°	8506.0	8545.4	8564.3	8654.1	8923.6	9580.7	10439.5	10540.3	10338.7	8923.6	7056.3
20°	8610.0	8628.9	8628.9	8682.5	8893.7	9408.9	10431.6	10634.9	10814.5	9464.1	7220.2
22.5°	8882.6	8890.5	8879.5	8898.4	9056.0	9456.2	10357.6	10609.7	11199.0	9922.6	7347.8
25°	9325.4	9338.0	9265.5	9221.4	9336.5	9664.2	10398.5	10630.2	11500.0	10360.7	7432.9
27.5°	9828.1	9843.9	9755.6	9653.2	9706.8	9921.1	10559.3	10767.3	11725.3	10792.5	7486.5
30°	10444.2	10450.5	10302.4	10179.5	10144.8	10304.0	10833.4	11027.3	12005.8	11301.4	7566.9
32.5°	11074.5	11121.8	10931.1	10757.8	10699.5	10748.4	11238.4	11425.9	12339.9	11848.2	7696.1
35°	11931.8	11939.6	11711.1	11500.0	11307.8	11370.8	11756.8	11892.4	12801.6	12480.1	7878.9
37.5°	13001.7	13074.2	12759.0	12365.1	12128.7	12037.3	12384.0	12532.1	13449.2	13255.4	8154.6
40°	14189.8	14216.6	13947.2	13701.4	13269.6	13004.9	13244.4	13405.1	14248.1	14180.4	8474.5
42.5°	14936.8	14995.1	15015.5	14990.3	14665.7	14221.4	14312.8	14388.4	15193.6	15048.6	8802.3
45°	15188.9	15275.5	15568.6	16189.5	16224.2	15786.1	15573.4	15645.9	16224.2	15924.8	9115.9
47.5°	14771.3	14919.4	15459.9	16733.1	17686.5	17719.6	17078.2	16919.1	17163.3	16651.2	9342.8
50°	13691.9	13723.4	14550.7	16394.3	18371.9	19568.0	18904.6	18608.3	18055.2	17188.5	9498.8
52.5°	12021.6	12057.8	12751.2	14820.2	17949.6	20860.1	21041.3	20511.8	18961.3	17606.1	9601.2
55°	8923.6	9133.2	9895.9	11895.5	15948.4	20738.8	22740.0	22439.0	20056.4	17937.0	9761.9
57.5°	5486.8	5294.6	6199.1	8093.2	11994.8	19071.6	23264.7	23362.4	21261.9	18214.4	10031.4
60°	2524.4	2562.2	2935.7	4174.2	7311.6	14919.4	21912.7	22530.4	21928.5	18204.9	10099.1
62.5°	1739.7	1705.0	1610.4	1832.6	3334.3	9435.7	18509.0	19555.4	20592.2	17639.2	9829.7
65°	1555.3	1520.6	1337.8	1276.4	1531.7	4112.8	13455.5	14776.0	17338.2	16211.6	9158.4
67.5°	1452.9	1405.6	1216.5	1096.7	1093.6	1637.2	7934.0	9524.0	12859.9	13706.1	7935.6
70°	1345.7	1307.9	1120.4	988.0	931.3	1029.0	3487.2	4565.0	8350.0	9876.9	6181.8
72.5°	1238.6	1194.4	1025.8	884.0	809.9	770.6	1336.3	1738.1	4717.9	5921.8	3789.7
75°	1082.6	1060.5	917.1	800.5	720.1	622.4	847.8	967.5	2256.5	2719.8	1902.0
77.5°	947.0	923.4	814.7	699.6	641.3	505.8	601.9	657.1	951.8	1103.0	858.8
80°	693.3	717.0	687.0	617.7	572.0	397.1	405.0	450.7	565.7	625.6	524.7
82.5°	439.6	483.8	529.5	475.9	433.3	313.6	280.5	297.8	386.1	409.7	233.2
85°	184.4	187.5	307.3	289.9	247.4	185.9	168.6	178.1	206.4	215.9	108.7
87.5°	70.9	69.3	108.7	100.8	77.2	53.6	53.6	59.9	81.9	75.6	34.7
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°	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8
2.5°	6068.3	5956.4	5734.2	5458.5	5256.8	5029.9	4829.7	4686.4	4632.8	4607.6	4560.3
5°	6063.6	5843.0	5382.8	4900.7	4513.0	4115.9	3780.3	3562.8	3543.9	3398.9	3384.8
7.5°	6065.2	5727.9	4995.2	4286.1	3695.2	3288.6	3011.3	2938.8	2852.2	2830.1	2841.1
10°	6069.9	5581.4	4579.2	3677.9	3105.8	2839.5	2735.5	2707.2	2710.3	2719.8	2721.4
12.5°	6076.2	5439.6	4147.4	3216.2	2774.9	2664.6	2653.6	2678.8	2705.6	2726.1	2730.8
15°	6084.1	5277.3	3726.7	2844.3	2609.5	2600.0	2636.3	2678.8	2716.6	2746.6	2751.3
17.5°	6074.6	5088.2	3373.7	2615.8	2518.1	2563.8	2623.7	2677.2	2711.9	2740.3	2743.4
20°	6052.5	4877.0	3033.4	2455.1	2461.4	2535.4	2600.0	2650.5	2688.3	2702.5	2713.5
22.5°	5967.5	4624.9	2737.1	2330.6	2393.6	2496.0	2573.2	2603.2	2560.6	2530.7	2538.6
25°	5822.5	4297.1	2461.4	2229.7	2332.1	2440.9	2519.7	2447.2	2412.5	2399.9	2406.2
27.5°	5641.3	3937.9	2253.4	2124.1	2253.4	2379.4	2357.4	2344.8	2329.0	2308.5	2313.2
30°	5445.9	3586.5	2076.9	2042.2	2168.3	2240.8	2250.2	2270.7	2253.4	2221.8	2234.4
32.5°	5264.7	3255.5	1942.9	1972.9	2108.4	2097.4	2168.3	2191.9	2111.5	2006.0	2010.7
35°	5110.2	2948.3	1842.1	1905.1	2006.0	2010.7	2081.6	1999.7	1913.0	1862.6	1865.7
37.5°	4993.6	2708.8	1775.9	1846.8	1875.2	1935.1	1897.2	1854.7	1843.7	1809.0	1810.6
40°	4924.3	2499.2	1733.4	1801.1	1796.4	1837.4	1716.0	1758.6	1774.3	1763.3	1764.9
42.5°	4855.0	2351.1	1689.2	1738.1	1736.5	1656.1	1629.3	1665.6	1706.6	1711.3	1708.1
45°	4799.8	2236.0	1643.5	1642.0	1673.5	1547.4	1539.5	1561.6	1619.9	1648.3	1646.7
47.5°	4738.4	2139.9	1574.2	1530.1	1539.5	1479.7	1467.0	1476.5	1547.4	1593.1	1605.7
50°	4661.1	2043.8	1487.5	1427.7	1388.3	1416.6	1419.8	1421.3	1492.3	1544.3	1555.3
52.5°	4599.7	1971.3	1388.3	1344.1	1296.9	1359.9	1383.5	1386.7	1429.2	1471.8	1479.7
55°	4635.9	1930.3	1290.6	1259.0	1216.5	1301.6	1347.3	1353.6	1363.0	1394.6	1399.3
57.5°	4744.7	1939.8	1211.8	1170.8	1139.3	1232.3	1309.5	1314.2	1307.9	1345.7	1352.0
60°	4777.7	1935.1	1153.5	1073.1	1054.2	1158.2	1254.3	1263.8	1262.2	1317.3	1328.4
62.5°	4639.1	1875.2	1095.2	991.2	978.6	1082.6	1177.1	1214.9	1222.8	1301.6	1315.8
65°	4312.9	1752.3	1017.9	904.5	904.5	1002.2	1103.0	1155.0	1177.1	1282.7	1298.4
67.5°	3882.7	1607.3	939.2	830.4	827.3	925.0	1024.3	1077.8	1112.5	1255.9	1265.3
70°	3222.5	1411.9	841.5	750.1	750.1	838.3	928.1	992.7	1043.2	1205.5	1205.5
72.5°	2207.7	1174.0	723.3	658.7	660.2	742.2	833.6	906.1	965.9	1104.6	1107.8
75°	1396.1	917.1	594.1	561.0	567.3	644.5	739.0	814.7	934.4	1092.0	1096.7
77.5°	742.2	644.5	472.7	464.9	472.7	543.6	649.2	753.2	937.6	947.0	931.3
80°	480.6	457.0	373.5	357.7	360.9	438.1	578.3	715.4	753.2	762.7	728.0
82.5°	261.6	289.9	264.7	249.0	249.0	341.9	493.2	568.9	540.5	449.1	428.6
85°	111.9	135.5	137.1	119.8	115.0	211.2	330.9	310.4	288.4	275.8	272.6
87.5°	31.5	44.1	44.1	33.1	25.2	58.3	66.2	18.9	0.0	1.6	3.2
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)