

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: STREETWORKS

Report Number: P459358

Luminaire Tested: **GLAN-SA8B-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459358
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: STREETWORKS
Catalog Number: GLAN-SA8B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43222 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

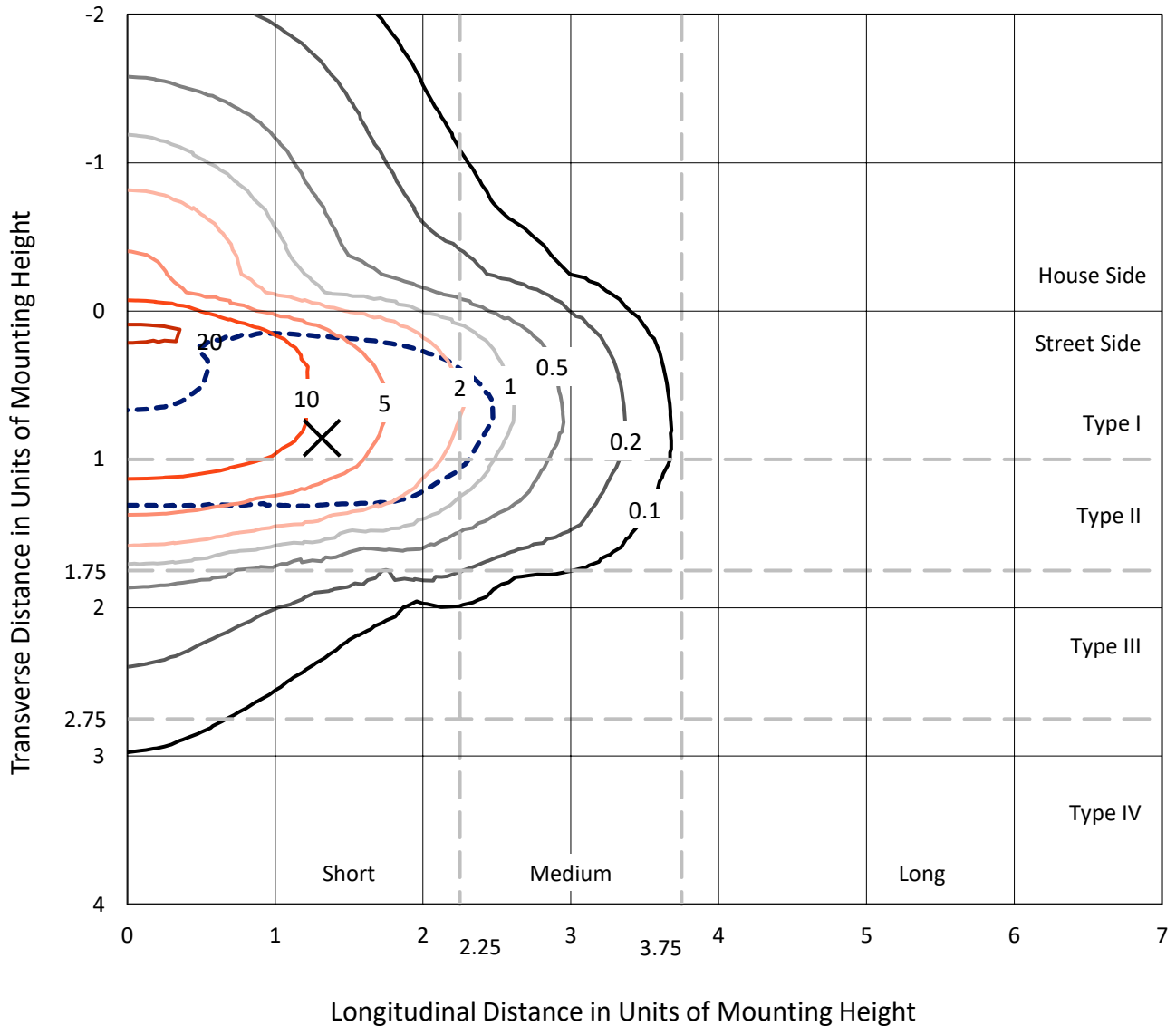
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459358
 CATALOG NUMBER: GLAN-SA8B-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

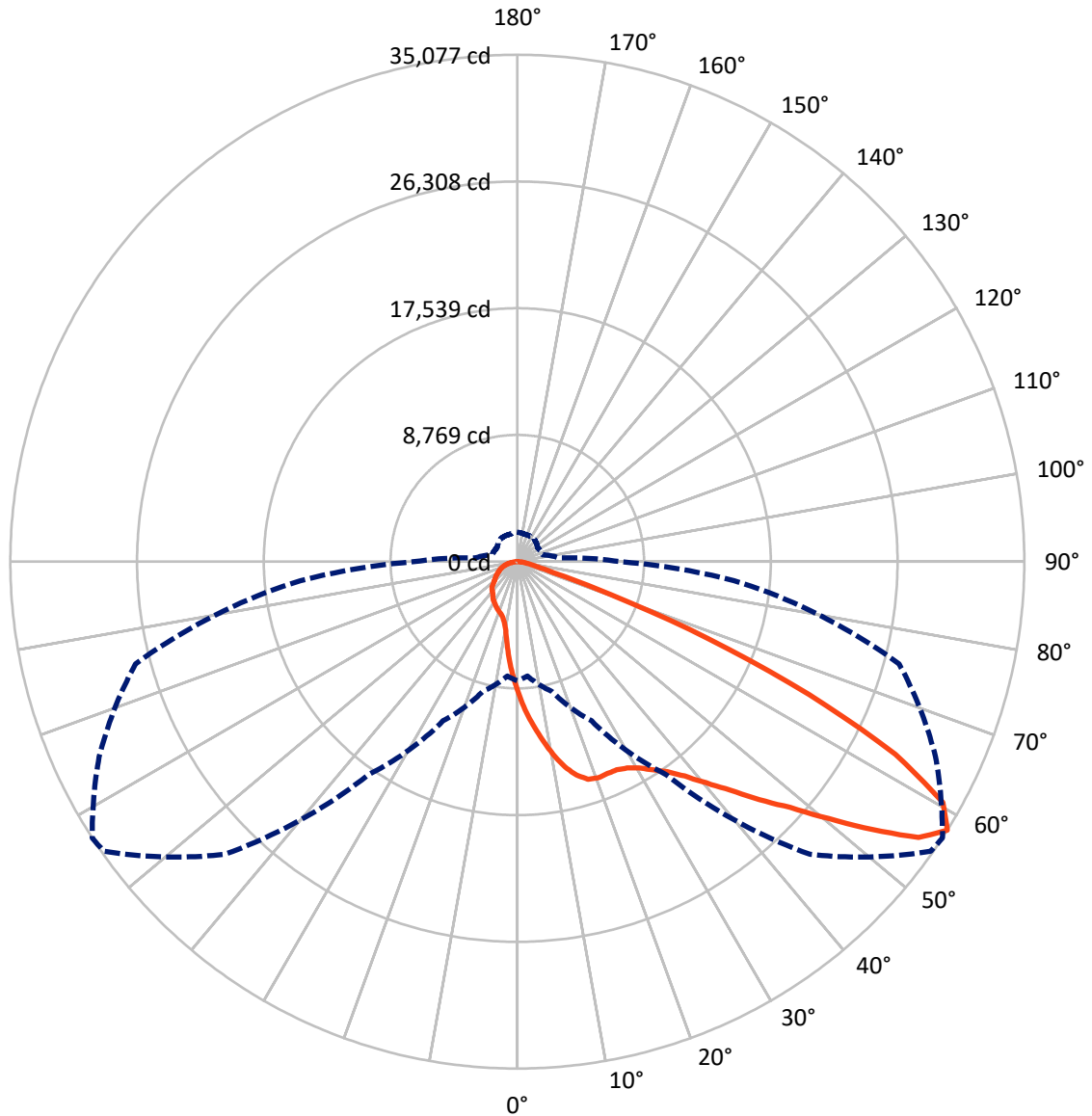
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Short - N/A

REPORT NUMBER: P459358
CATALOG NUMBER: GLAN-SA8B-735-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459358

CATALOG NUMBER: GLAN-SA8B-735-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6572.9	0.0	6572.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	36649.1	0.0	36649.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	43222.0	0.0	43222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.7	2.0
10°-20°	2572.0	6.0
20°-30°	4270.8	9.9
30°-40°	6433.0	14.9
40°-50°	9658.6	22.3
50°-60°	10826.1	25.0
60°-70°	6335.9	14.7
70°-80°	1874.1	4.3
80°-90°	378.8	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°	43222.0	100.0
0°-180°	43222.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459358

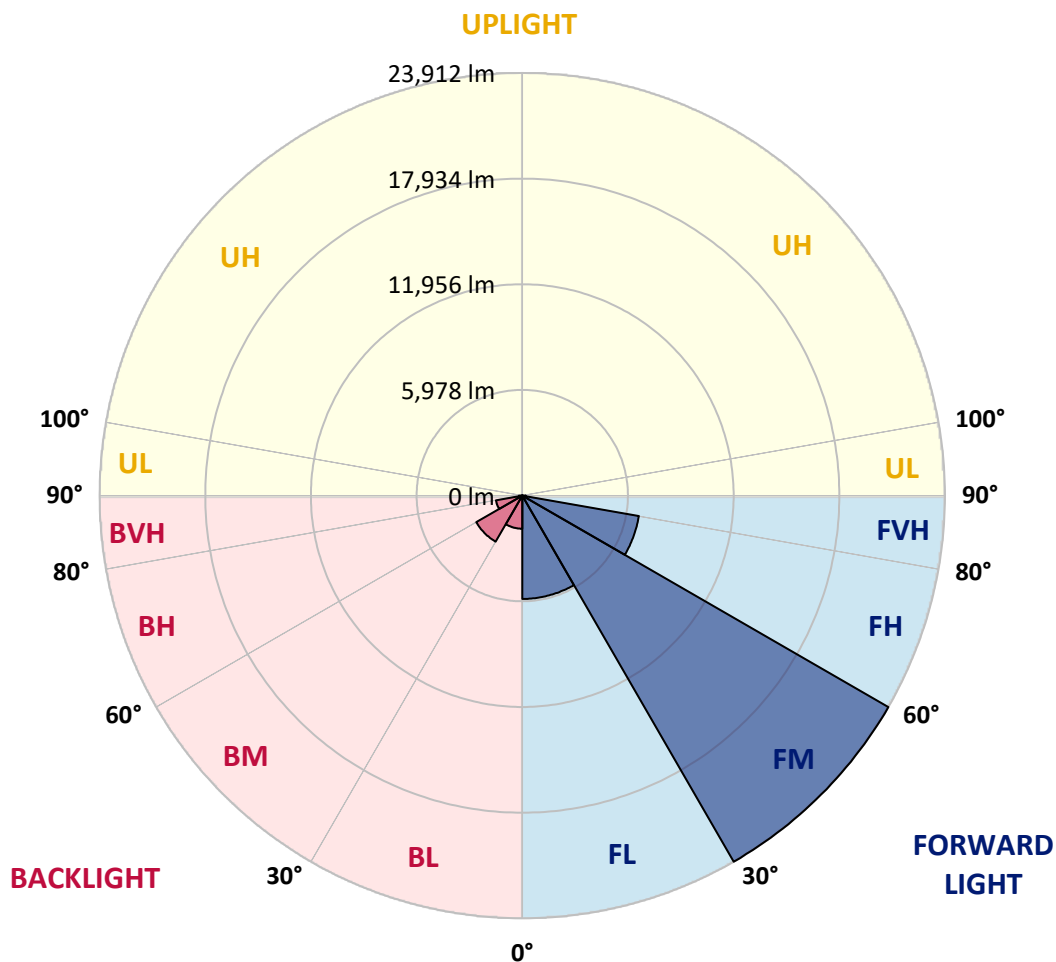
CATALOG NUMBER: GLAN-SA8B-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5842.6	13.5			
FM	(30°-60°)	23912.3	55.3			
FH	(60°-80°)	6697.7	15.5			G3/7500
FVH	(80°-90°)	196.5	0.5			G2/225
BL	(0°-30°)	1872.8	4.3	B3/2500		
BM	(30°-60°)	3005.4	7.0	B3/5000		
BH	(60°-80°)	1512.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	182.3	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





REPORT NUMBER: P459358
 CATALOG NUMBER: GLAN-SA8B-735-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4
2.5°	11283.1	11160.1	11063.1	10977.9	10866.7	10566.3	10265.8	10261.0	10022.1	9653.0	9274.5
5°	13121.5	12955.8	12977.1	12712.2	12447.2	12011.8	11375.4	11342.3	10833.6	10142.8	9440.1
7.5°	14318.6	14321.0	14254.7	14103.3	13817.0	13322.6	12601.0	12437.7	11730.3	10682.2	9629.3
10°	14257.1	14321.0	14432.2	14562.3	14649.9	14406.2	13748.4	13549.7	12629.3	11335.2	9839.9
12.5°	13438.5	13537.9	13696.4	14022.9	14550.5	14952.7	14727.9	14567.0	13670.4	11985.8	10071.8
15°	12927.5	12986.6	13074.1	13294.2	13862.0	14824.9	15407.0	15321.8	14652.2	12721.6	10332.0
17.5°	12771.3	12830.4	12858.8	12993.7	13398.3	14384.9	15674.3	15825.7	15522.9	13398.3	10594.6
20°	12927.5	12955.8	12955.8	13036.3	13353.3	14127.0	15662.5	15967.7	16237.4	14209.8	10840.7
22.5°	13336.8	13348.6	13332.0	13360.4	13597.0	14198.0	15551.3	15929.8	16814.7	14898.3	11032.3
25°	14001.6	14020.5	13911.7	13845.4	14018.1	14510.3	15612.8	15960.6	17266.6	15556.0	11160.1
27.5°	14756.3	14780.0	14647.5	14493.7	14574.1	14895.9	15854.1	16166.4	17604.9	16204.3	11240.5
30°	15681.4	15690.9	15468.5	15283.9	15231.9	15470.8	16265.8	16556.8	18026.0	16968.5	11361.2
32.5°	16627.8	16698.7	16412.5	16152.2	16064.7	16138.0	16873.8	17155.4	18527.6	17789.4	11555.2
35°	17914.8	17926.7	17583.6	17266.6	16977.9	17072.6	17652.2	17855.7	19220.8	18738.2	11829.7
37.5°	19521.3	19630.1	19157.0	18565.5	18210.6	18073.4	18593.9	18816.3	20193.2	19902.2	12243.7
40°	21305.2	21345.4	20940.9	20571.8	19923.5	19526.0	19885.7	20127.0	21392.8	21291.0	12724.0
42.5°	22426.7	22514.2	22545.0	22507.1	22019.7	21352.5	21489.8	21603.3	22812.3	22594.7	13216.1
45°	22805.2	22935.3	23375.4	24307.6	24359.6	23701.9	23382.5	23491.3	24359.6	23910.1	13686.9
47.5°	22178.2	22400.6	23212.2	25123.8	26555.2	26604.9	25642.0	25403.0	25769.7	25000.8	14027.6
50°	20557.6	20604.9	21847.0	24615.2	27584.4	29380.1	28384.1	27939.3	27108.9	25807.6	14261.8
52.5°	18049.7	18104.1	19145.1	22251.6	26950.3	31320.2	31592.3	30797.3	28469.3	26434.6	14415.6
55°	13398.3	13712.9	14858.1	17860.4	23945.6	31138.0	34142.8	33690.9	30113.6	26931.4	14656.9
57.5°	8238.2	7949.5	9307.6	12151.4	18009.5	28634.9	34930.6	35077.3	31923.5	27347.8	15061.5
60°	3790.2	3847.0	4407.7	6267.4	10977.9	22400.6	32900.7	33828.1	32924.3	27333.6	15163.3
62.5°	2612.0	2559.9	2418.0	2751.6	5006.3	14167.2	27790.2	29361.2	30918.0	26484.2	14758.7
65°	2335.2	2283.1	2008.7	1916.4	2299.7	6175.1	20202.7	22185.3	26032.4	24340.7	13750.8
67.5°	2181.4	2110.4	1826.5	1646.7	1642.0	2458.2	11912.5	14299.7	19308.4	20578.9	11914.8
70°	2020.5	1963.7	1682.2	1483.4	1398.3	1545.0	5235.8	6854.1	12537.1	14829.7	9281.6
72.5°	1859.6	1793.4	1540.2	1327.3	1216.1	1156.9	2006.3	2609.6	7083.6	8891.2	5690.1
75°	1625.4	1592.3	1377.0	1201.9	1081.2	934.5	1272.9	1452.7	3388.0	4083.6	2855.7
77.5°	1421.9	1386.4	1223.2	1050.5	962.9	759.5	903.8	986.6	1429.0	1656.2	1289.4
80°	1041.0	1076.5	1031.5	927.4	858.8	596.2	608.0	676.7	849.4	939.3	787.9
82.5°	660.1	726.3	795.0	714.5	650.6	470.8	421.1	447.2	579.7	615.1	350.2
85°	276.8	281.5	461.4	435.3	371.5	279.2	253.2	267.4	309.9	324.1	163.2
87.5°	106.5	104.1	163.2	151.4	115.9	80.4	80.4	89.9	123.0	113.6	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459358
 CATALOG NUMBER: GLAN-SA8B-735-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4	9080.4
2.5°	9111.2	8943.2	8609.6	8195.6	7892.7	7552.1	7251.6	7036.3	6955.8	6918.0	6847.0
5°	9104.1	8772.9	8082.0	7358.0	6776.0	6179.8	5675.9	5349.4	5321.0	5103.3	5082.0
7.5°	9106.5	8600.2	7500.0	6435.3	5548.1	4937.7	4521.3	4412.5	4282.3	4249.2	4265.8
10°	9113.6	8380.1	6875.4	5522.1	4663.3	4263.4	4107.3	4064.7	4069.4	4083.6	4086.0
12.5°	9123.0	8167.2	6227.1	4828.9	4166.4	4000.8	3984.2	4022.1	4062.3	4093.1	4100.2
15°	9134.9	7923.5	5595.4	4270.5	3918.0	3903.8	3958.2	4022.1	4078.9	4123.8	4130.9
17.5°	9120.7	7639.6	5065.5	3927.4	3780.8	3849.4	3939.3	4019.7	4071.8	4114.4	4119.1
20°	9087.5	7322.6	4554.4	3686.1	3695.6	3806.8	3903.8	3979.5	4036.3	4057.6	4074.1
22.5°	8959.8	6944.0	4109.6	3499.2	3593.9	3747.6	3863.6	3908.5	3844.6	3799.7	3811.5
25°	8742.1	6451.9	3695.6	3347.8	3501.6	3664.8	3783.1	3674.3	3622.2	3603.3	3612.8
27.5°	8470.0	5912.5	3383.3	3189.3	3383.3	3572.6	3539.4	3520.5	3496.8	3466.1	3473.2
30°	8176.7	5384.9	3118.3	3066.2	3255.5	3364.4	3378.6	3409.3	3383.3	3336.0	3354.9
32.5°	7904.6	4888.0	2917.2	2962.1	3165.6	3149.1	3255.5	3291.0	3170.3	3011.8	3018.9
35°	7672.7	4426.7	2765.8	2860.4	3011.8	3018.9	3125.4	3002.4	2872.2	2796.5	2801.3
37.5°	7497.6	4067.0	2666.4	2772.9	2815.5	2905.4	2848.6	2784.7	2768.1	2716.1	2718.5
40°	7393.5	3752.4	2602.5	2704.3	2697.2	2758.7	2576.5	2640.4	2664.0	2647.5	2649.8
42.5°	7289.4	3530.0	2536.3	2609.6	2607.3	2486.6	2446.4	2500.8	2562.3	2569.4	2564.7
45°	7206.6	3357.3	2467.7	2465.3	2512.6	2323.3	2311.5	2344.6	2432.2	2474.8	2472.4
47.5°	7114.4	3212.9	2363.6	2297.3	2311.5	2221.6	2202.7	2216.9	2323.3	2392.0	2410.9
50°	6998.4	3068.6	2233.4	2143.5	2084.4	2127.0	2131.7	2134.1	2240.5	2318.6	2335.2
52.5°	6906.2	2959.8	2084.4	2018.1	1947.2	2041.8	2077.3	2082.0	2145.9	2209.8	2221.6
55°	6960.6	2898.3	1937.7	1890.4	1826.5	1954.3	2022.9	2032.3	2046.5	2093.8	2100.9
57.5°	7123.8	2912.5	1819.4	1757.9	1710.6	1850.2	1966.1	1973.2	1963.7	2020.5	2030.0
60°	7173.5	2905.4	1731.9	1611.2	1582.8	1739.0	1883.3	1897.5	1895.1	1977.9	1994.5
62.5°	6965.3	2815.5	1644.3	1488.2	1469.2	1625.4	1767.4	1824.1	1836.0	1954.3	1975.6
65°	6475.6	2630.9	1528.4	1358.0	1358.0	1504.7	1656.2	1734.2	1767.4	1925.9	1949.5
67.5°	5829.7	2413.3	1410.1	1246.8	1242.1	1388.8	1537.9	1618.3	1670.3	1885.6	1899.8
70°	4838.3	2119.9	1263.4	1126.2	1126.2	1258.7	1393.5	1490.5	1566.2	1809.9	1809.9
72.5°	3314.7	1762.6	1086.0	989.0	991.3	1114.4	1251.6	1360.4	1450.3	1658.5	1663.3
75°	2096.2	1377.0	892.0	842.3	851.7	967.7	1109.6	1223.2	1403.0	1639.6	1646.7
77.5°	1114.4	967.7	709.8	697.9	709.8	816.2	974.8	1130.9	1407.7	1421.9	1398.3
80°	721.6	686.1	560.7	537.1	541.8	657.7	868.3	1074.1	1130.9	1145.1	1093.1
82.5°	392.7	435.3	397.5	373.8	373.8	513.4	740.5	854.1	811.5	674.3	643.5
85°	168.0	203.5	205.8	179.8	172.7	317.0	496.8	466.1	433.0	414.0	409.3
87.5°	47.3	66.2	66.2	49.7	37.9	87.5	99.4	28.4	0.0	2.4	4.7
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)