

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: P651511

Luminaire Tested: **GALN-SA7D-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44914.5 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

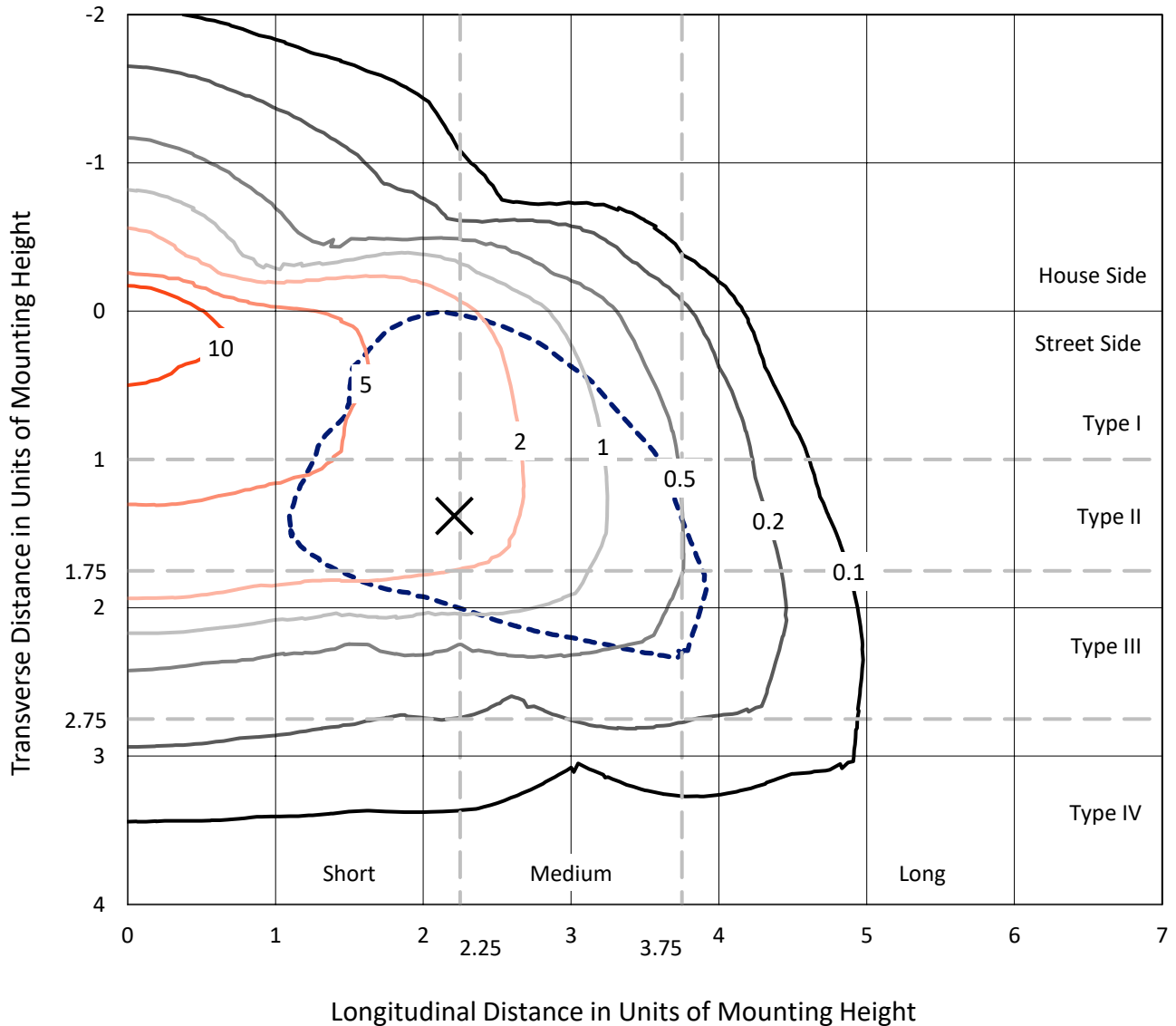
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

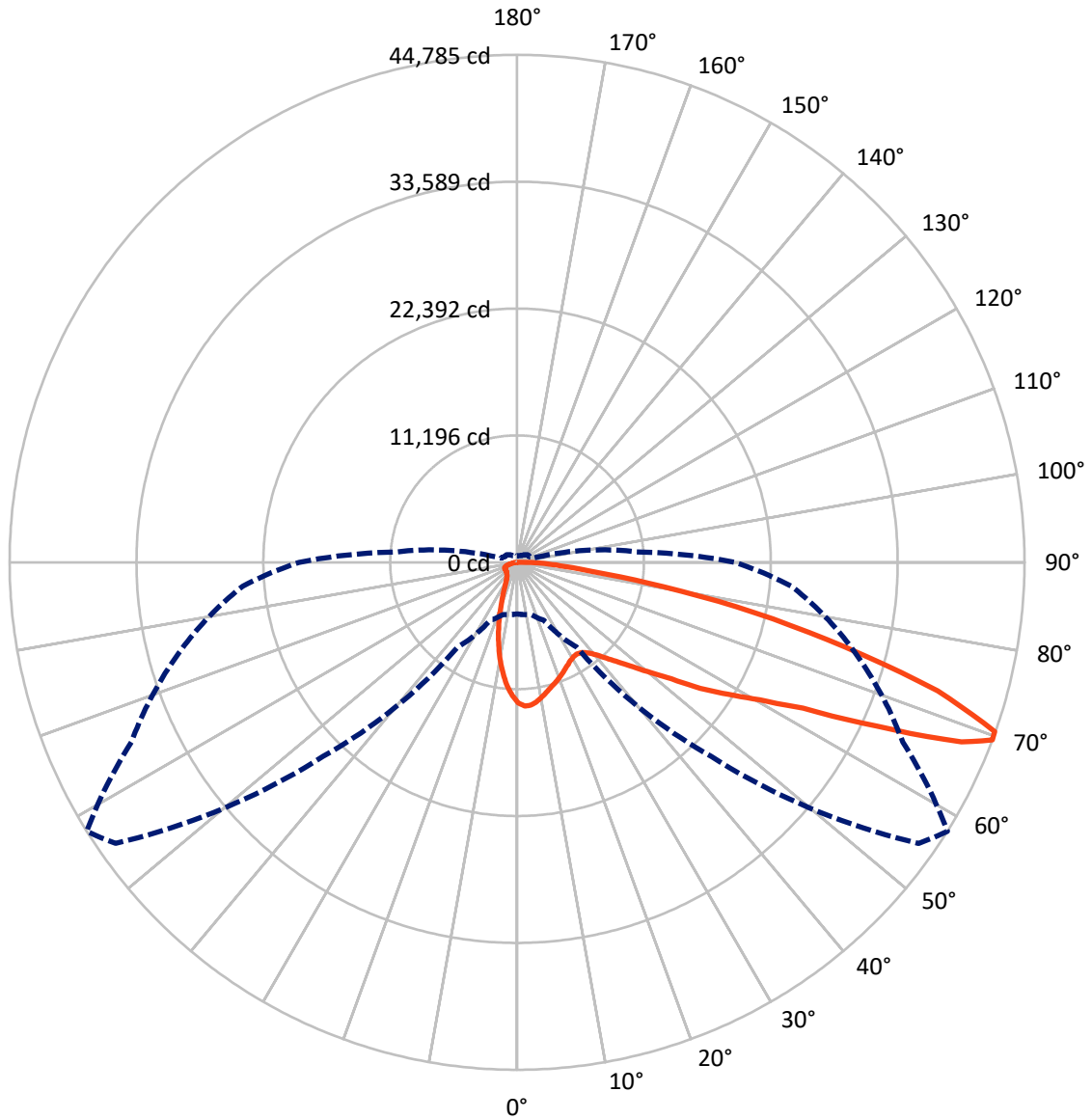
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6582.2	0.0	6582.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38332.2	0.0	38332.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	44914.5	0.0	44914.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.1	2.3
10°-20°	2314.5	5.2
20°-30°	2990.4	6.7
30°-40°	3884.0	8.6
40°-50°	5646.7	12.6
50°-60°	9010.3	20.1
60°-70°	12036.6	26.8
70°-80°	6938.6	15.4
80°-90°	1039.3	2.3
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°	44914.5	100.0
0°-180°	44914.5	100.0

Coefficient of Utilization

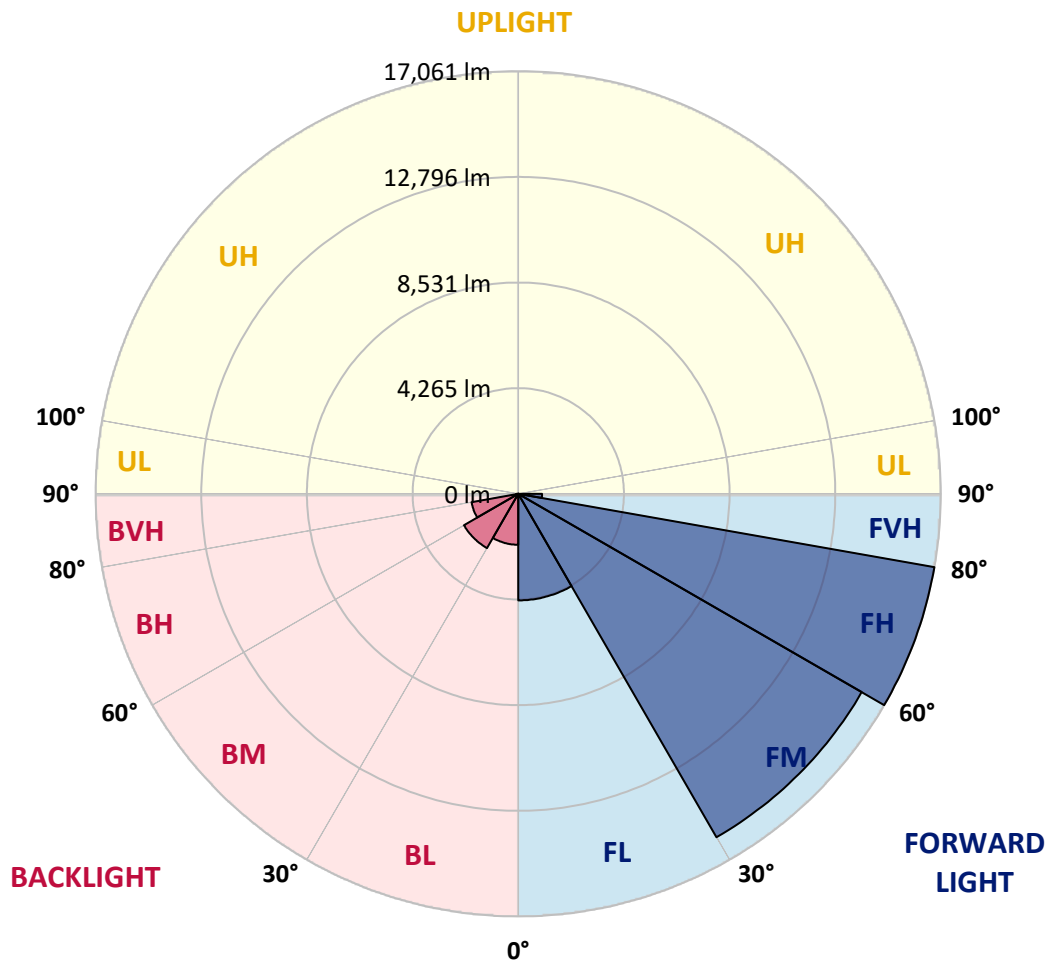


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4301.7	9.6			
FM (30°-60°)	16009.7	35.6			
FH (60°-80°)	17061.3	38.0			G5
FVH (80°-90°)	959.6	2.1			G5
BL (0°-30°)	2057.3	4.6	B3/2500		
BM (30°-60°)	2531.3	5.6	B3/5000		
BH (60°-80°)	1914.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	79.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7
2.5°	12872.6	12907.7	12897.7	12885.1	12865.1	12810.0	12719.8	12704.8	12647.2	12524.4	12371.6
5°	12674.7	12704.8	12707.3	12724.8	12749.9	12739.9	12674.7	12667.2	12582.0	12416.7	12161.2
7.5°	11995.9	12036.0	12123.7	12221.3	12309.0	12391.7	12411.7	12424.3	12371.6	12181.3	11840.6
10°	11231.9	11272.0	11312.0	11457.4	11672.7	11878.2	12048.5	12071.0	12083.6	11908.2	11492.4
12.5°	10385.3	10467.9	10553.1	10768.5	11056.5	11379.7	11680.3	11727.9	11813.0	11680.3	11191.9
15°	9666.4	9751.6	9874.3	10067.1	10415.4	10881.2	11304.6	11382.2	11550.0	11482.4	10911.3
17.5°	9167.9	9197.9	9283.1	9503.6	9879.3	10370.2	10936.4	11091.6	11359.6	11342.1	10670.9
20°	8774.7	8812.2	8864.8	9000.0	9390.9	9909.3	10593.2	10793.6	11156.8	11216.9	10432.9
22.5°	8609.3	8636.8	8629.3	8702.0	8967.5	9488.5	10245.0	10483.0	10976.4	11131.7	10212.4
25°	8619.3	8644.4	8606.8	8589.3	8747.1	9117.8	9881.8	10184.8	10831.2	11074.1	10012.0
27.5°	8787.2	8804.7	8734.5	8664.4	8676.9	8887.4	9581.2	9916.8	10708.4	11099.2	9844.2
30°	9012.6	9045.1	9000.0	8914.9	8822.3	8832.3	9388.3	9718.9	10650.8	11186.8	9764.1
32.5°	9303.1	9333.2	9313.1	9245.5	9125.3	8992.6	9340.7	9646.4	10655.8	11364.7	9746.5
35°	9608.8	9668.9	9701.4	9696.4	9598.8	9368.3	9528.6	9781.6	10776.1	11662.7	9849.2
37.5°	9954.4	10004.5	10144.8	10235.0	10144.8	9876.8	9951.9	10127.2	11041.6	12093.6	10074.7
40°	10290.1	10365.2	10570.6	10851.2	10816.1	10580.6	10598.2	10713.4	11509.9	12734.8	10515.5
42.5°	10640.8	10730.9	11089.2	11505.0	11587.6	11404.7	11452.3	11555.1	12176.3	13624.1	11272.0
45°	11091.6	11199.3	11640.2	12158.8	12484.4	12371.6	12506.9	12557.0	13068.0	14781.3	12268.9
47.5°	11672.7	11798.1	12341.6	12987.8	13448.8	13551.5	13786.9	13756.8	14172.7	16151.5	13561.5
50°	12652.2	12722.3	13235.8	13894.6	14528.4	14991.8	15247.2	15294.8	15542.9	17484.1	15006.8
52.5°	13817.0	13879.6	14250.3	14826.4	15620.5	16602.4	17233.6	17078.4	17138.5	19107.3	16697.6
55°	15127.0	15232.2	15467.7	15850.9	16880.5	18325.7	19593.2	19630.8	18964.6	20660.3	18318.2
57.5°	16141.5	16319.4	16722.6	17268.7	18573.7	20242.0	21945.3	21970.4	21118.7	22318.5	20106.7
60°	15630.5	15840.9	16762.7	18092.8	20795.6	23586.0	24755.8	24613.0	23215.3	24207.3	22288.5
62.5°	13426.2	13463.7	14803.9	16883.0	21479.4	28059.8	28939.0	28335.3	26013.3	26601.9	24505.3
65°	8689.5	8935.0	9997.1	12910.2	19232.6	30542.1	36268.3	34873.1	29935.9	29319.7	26361.5
67.5°	5485.7	5423.1	5864.0	7371.9	13228.3	28355.3	42523.0	42302.6	35065.9	31035.6	25918.1
69°	4548.9	4619.0	4769.3	5651.0	9102.7	24209.8	43262.0	44784.9	37553.3	30900.3	24307.4
70°	4125.5	4158.2	4315.9	5009.8	7023.7	20277.1	42049.6	44717.2	38530.2	30334.2	23140.2
72.5°	3273.9	3271.4	3541.9	4168.2	5250.3	11575.1	34527.4	38823.3	37438.0	27699.1	19119.8
75°	2487.3	2527.5	2825.5	3526.9	4836.9	6324.8	24094.6	29898.4	29900.8	21877.7	11930.8
77.5°	1793.5	1818.6	2166.8	2960.7	4556.4	5127.5	16048.8	21444.3	20159.4	10024.6	3749.9
80°	1174.8	1189.8	1455.4	2344.5	4108.0	4836.9	9516.1	13125.7	9508.6	2660.2	1239.9
82.5°	643.8	718.9	889.3	1517.9	3296.5	4468.7	5783.8	6643.0	3566.9	1184.8	646.2
85°	323.1	343.1	501.0	886.8	2154.2	3697.2	4027.9	3809.9	1841.1	588.6	335.6
87.5°	95.2	120.3	207.9	343.1	874.2	1926.2	2241.9	2011.4	708.9	212.9	70.1
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°	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7	12411.7
2.5°	12309.0	12264.0	12063.6	11883.2	11717.9	11542.6	11394.7	11264.5	11277.0	11279.5	11146.8
5°	12028.5	11925.8	11545.0	11189.3	10888.8	10508.0	10182.4	9972.0	9866.8	9726.5	9776.5
7.5°	11647.8	11449.9	10921.3	10330.2	9776.5	9283.1	8747.1	8378.9	8143.4	7915.4	7945.5
10°	11254.4	10936.4	10167.4	9385.8	8669.4	7880.3	7196.5	6610.4	6174.5	6011.7	5904.0
12.5°	10851.2	10432.9	9456.0	8416.4	7427.0	6482.7	5513.3	4884.5	4403.6	4148.1	4180.7
15°	10483.0	9974.4	8714.5	7447.1	6162.0	5037.3	4070.4	3471.8	3136.1	3065.9	3106.1
17.5°	10142.3	9476.0	8020.6	6505.2	5004.8	3777.4	3058.5	2720.3	2585.1	2547.5	2545.0
20°	9791.6	9052.7	7241.6	5498.2	3900.1	2928.2	2509.9	2352.1	2327.0	2342.1	2344.5
22.5°	9435.9	8529.2	6440.0	4498.8	3106.1	2394.7	2194.3	2151.7	2171.7	2206.8	2211.8
25°	9107.8	8068.2	5668.6	3622.1	2479.9	2104.1	2006.5	2006.5	2051.5	2104.1	2106.6
27.5°	8837.2	7622.4	4899.6	2875.6	2076.5	1893.7	1861.1	1878.6	1941.3	1981.4	1983.8
30°	8614.3	7206.5	4173.1	2304.5	1826.1	1725.9	1718.3	1748.4	1793.5	1831.1	1833.5
32.5°	8446.5	6840.9	3494.4	1936.3	1653.2	1598.2	1595.6	1618.2	1643.2	1653.2	1663.2
35°	8381.3	6537.8	2873.1	1703.4	1538.0	1503.0	1503.0	1500.4	1510.4	1515.5	1520.4
37.5°	8434.0	6304.8	2392.1	1553.0	1452.8	1427.8	1412.8	1397.7	1392.7	1392.7	1395.2
40°	8656.9	6182.1	2034.0	1455.4	1392.7	1355.1	1327.6	1310.0	1292.5	1297.5	1302.5
42.5°	9130.3	6204.6	1791.0	1390.2	1340.1	1287.5	1247.5	1227.4	1214.9	1229.9	1227.4
45°	9884.3	6430.0	1635.7	1345.1	1287.5	1219.9	1182.3	1162.3	1162.3	1184.8	1192.3
47.5°	10938.9	6860.9	1553.0	1310.0	1247.5	1167.3	1129.7	1114.7	1119.7	1157.3	1159.7
50°	12226.4	7609.9	1538.0	1292.5	1227.4	1129.7	1087.2	1072.1	1084.6	1124.7	1129.7
52.5°	13646.7	8574.2	1610.7	1295.1	1209.9	1107.2	1052.1	1029.5	1042.0	1074.6	1084.6
55°	15329.9	9781.6	1798.5	1305.1	1184.8	1094.6	1027.0	976.9	992.0	1014.5	1017.0
57.5°	17048.2	11304.6	2129.2	1307.6	1164.8	1072.1	984.4	919.3	919.3	934.4	941.8
60°	19147.4	12962.8	2565.0	1310.0	1167.3	1039.6	926.8	854.2	844.1	851.7	854.2
62.5°	21231.5	14350.5	2637.6	1302.5	1192.3	1006.9	864.2	789.0	771.5	769.0	764.0
65°	22150.8	14092.5	2161.7	1267.5	1219.9	986.9	814.1	726.5	696.3	686.3	686.3
67.5°	20652.8	11920.8	1625.7	1219.9	1202.4	966.9	766.5	673.8	638.7	618.7	618.7
69°	19245.0	10603.2	1460.3	1187.3	1157.3	934.4	736.5	646.2	603.7	581.1	573.6
70°	18157.9	9696.4	1390.2	1159.7	1114.7	896.8	713.9	626.2	578.6	553.5	548.6
72.5°	14490.8	7607.3	1217.3	1054.5	949.3	754.0	633.8	563.6	518.5	491.0	483.4
75°	8351.3	4123.1	1009.5	916.8	764.0	586.2	536.1	491.0	455.9	430.8	423.4
77.5°	2570.0	1593.1	731.4	723.9	561.1	453.4	428.3	410.8	385.8	358.2	353.2
80°	1082.1	811.6	495.9	488.5	373.2	315.6	308.1	305.6	295.6	273.1	265.5
82.5°	593.7	458.4	345.7	300.6	225.5	182.8	190.4	192.8	185.4	162.8	147.8
85°	290.6	250.4	167.9	135.2	102.7	65.1	62.7	75.2	70.1	50.1	55.1
87.5°	57.6	70.1	45.1	20.0	10.0	0.0	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)