

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: P457422

Luminaire Tested: **GALN-SA8D-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55686 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

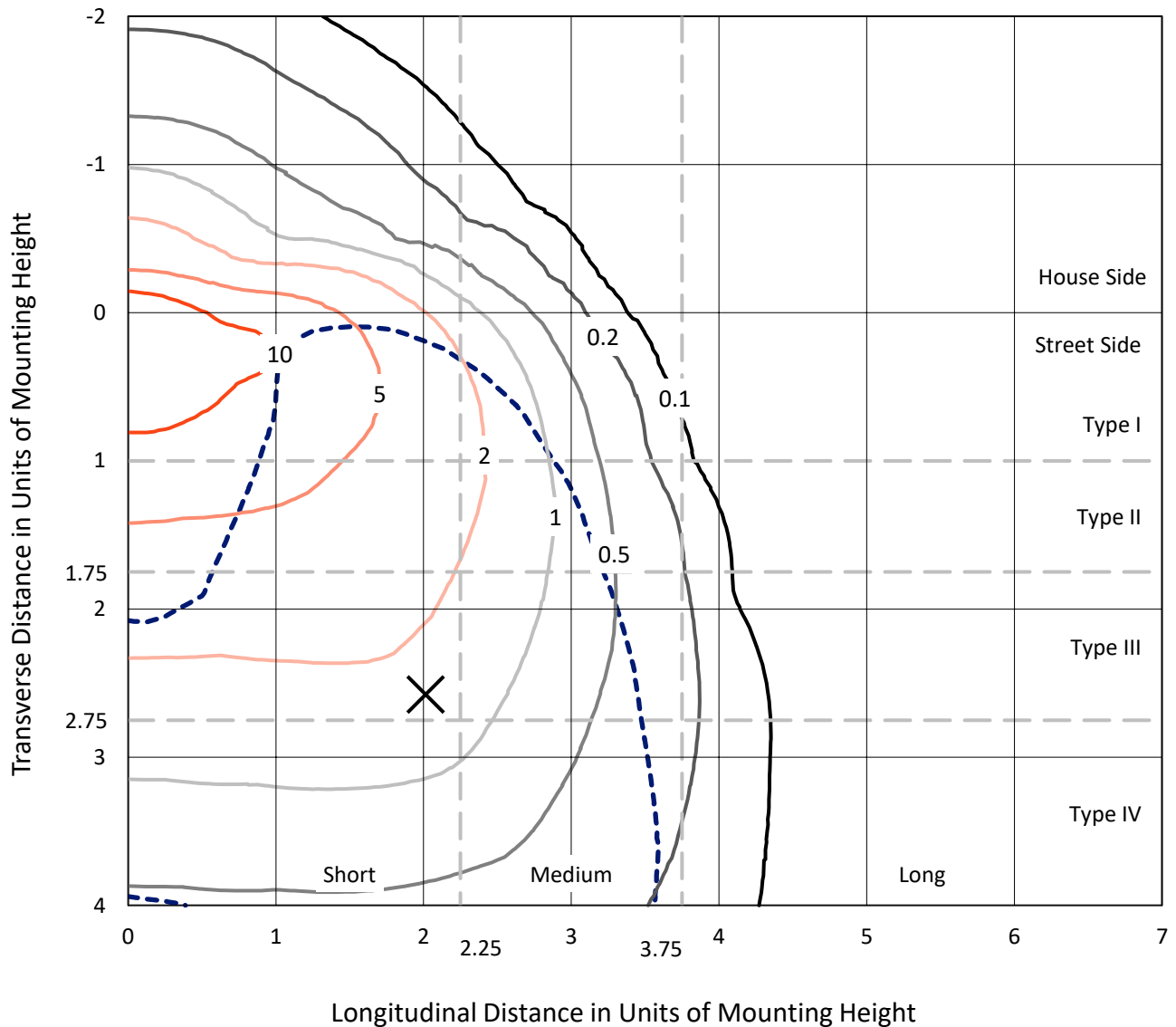
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

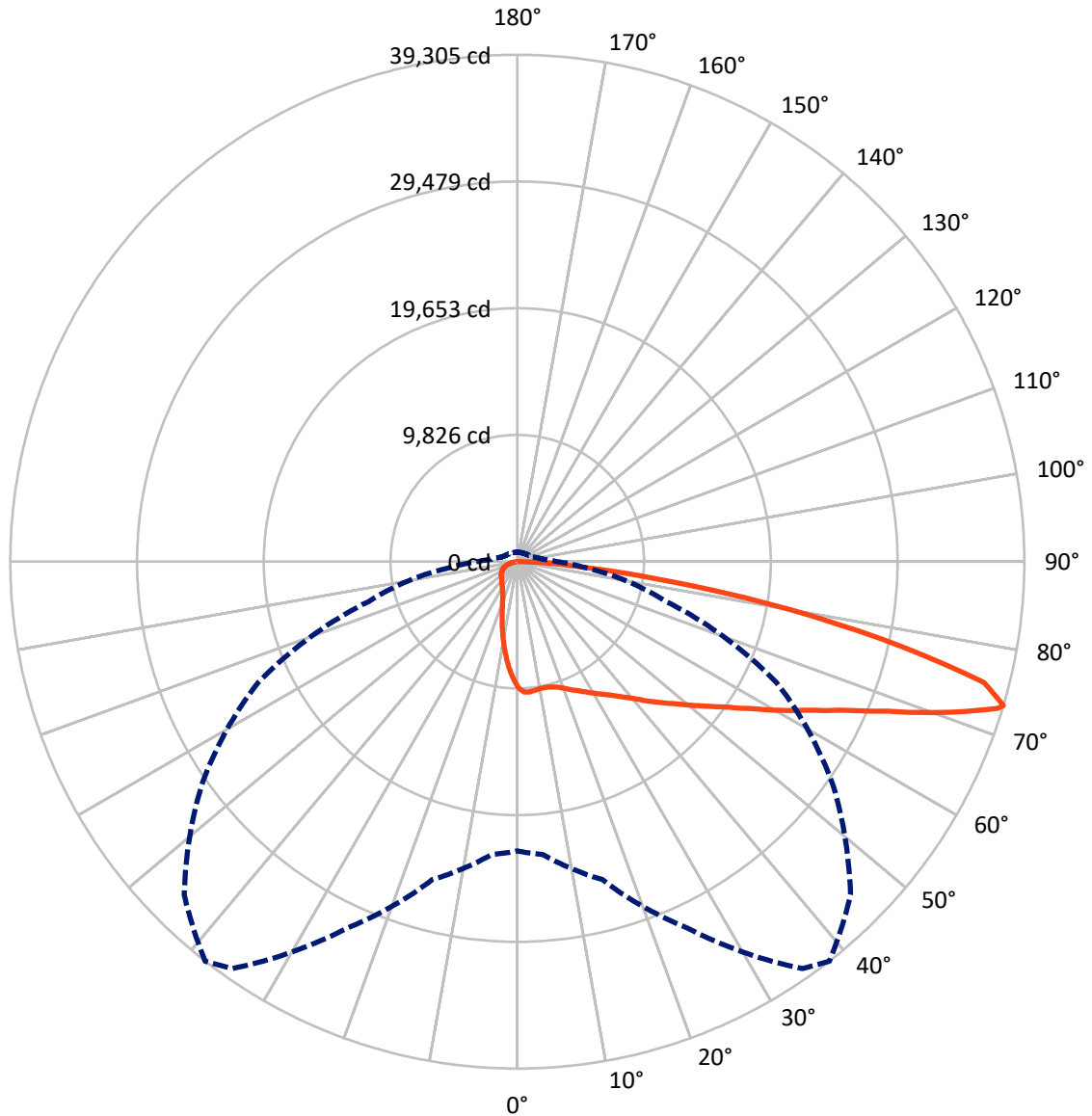
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7485.9	0.0	7485.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	48200.1	0.0	48200.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	55686.0	0.0	55686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.9	1.5
10°-20°	2189.8	3.9
20°-30°	3410.0	6.1
30°-40°	5001.6	9.0
40°-50°	7419.4	13.3
50°-60°	10511.8	18.9
60°-70°	13334.5	23.9
70°-80°	11100.0	19.9
80°-90°	1865.0	3.3
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°	55686.0	100.0
0°-180°	55686.0	100.0

Coefficient of Utilization



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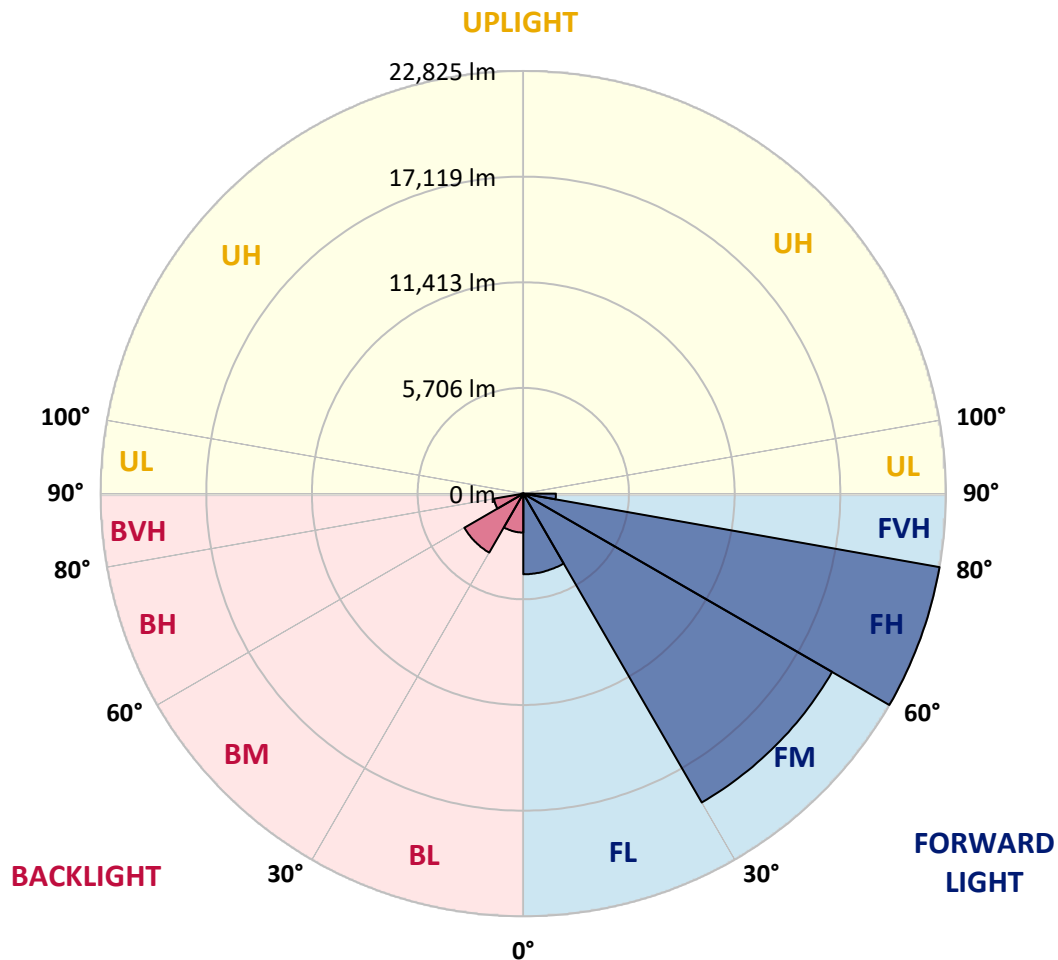
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4353.1	7.8			
FM	(30°-60°)	19257.7	34.6			
FH	(60°-80°)	22825.5	41.0			G5
FVH	(80°-90°)	1763.8	3.2			G5
BL	(0°-30°)	2100.6	3.8	B3/2500		
BM	(30°-60°)	3675.1	6.6	B3/5000		
BH	(60°-80°)	1609.0	2.9	B3/2500		G3/2500
BVH	(80°-90°)	101.1	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1
2.5°	10176.2	10226.5	10201.3	10166.7	10144.7	10122.7	10091.3	10000.1	9927.7	9849.1	9726.5
5°	10251.6	10283.1	10261.1	10217.1	10166.7	10144.7	10085.0	9965.5	9849.1	9717.0	9534.7
7.5°	10207.6	10220.2	10195.0	10141.6	10097.6	10056.7	9987.5	9855.4	9713.9	9553.5	9314.5
10°	10050.4	10097.6	10097.6	10053.5	10009.5	9987.5	9918.3	9792.5	9663.6	9481.2	9198.2
12.5°	9921.5	9971.8	10012.6	10000.1	9996.9	9996.9	9943.5	9849.1	9698.2	9525.2	9188.7
15°	9833.4	9893.2	9981.2	10031.5	10063.0	10072.4	10050.4	9968.6	9814.5	9613.3	9226.5
17.5°	9814.5	9886.9	10047.2	10157.3	10239.1	10235.9	10229.6	10116.4	9946.6	9739.1	9273.6
20°	9899.4	9993.8	10217.1	10390.0	10509.5	10487.5	10452.9	10305.1	10107.0	9874.3	9317.7
22.5°	10154.2	10251.6	10496.9	10685.6	10802.0	10802.0	10698.2	10503.2	10292.5	10031.5	9377.4
25°	10518.9	10625.9	10886.9	11078.7	11132.2	11091.3	10987.5	10751.6	10509.5	10257.9	9503.2
27.5°	10965.5	11094.4	11336.6	11496.9	11481.2	11449.8	11342.8	11041.0	10798.8	10569.3	9717.0
30°	11522.1	11616.4	11868.0	11905.7	11849.1	11842.8	11691.9	11390.0	11163.6	10987.5	10022.1
32.5°	12047.3	12132.2	12333.4	12349.1	12248.5	12261.1	12119.6	11842.8	11713.9	11651.0	10534.7
35°	12603.9	12647.9	12820.8	12802.0	12735.9	12726.5	12669.9	12405.7	12446.6	12559.8	11261.1
37.5°	13069.3	13157.3	13254.8	13270.5	13267.4	13298.8	13336.6	13210.8	13446.6	13802.0	12213.9
40°	13496.9	13572.4	13717.1	13767.4	13890.0	13952.9	14081.9	14085.0	14629.0	15213.9	13386.9
42.5°	13786.3	13915.2	14185.6	14276.8	14575.6	14764.3	14956.1	15160.5	15949.8	16701.4	14770.5
45°	14037.8	14207.6	14657.3	14940.4	15346.0	15575.6	15981.2	16408.9	17544.1	18528.4	16176.2
47.5°	14418.3	14569.3	15085.0	15585.0	16198.2	16462.4	17069.3	17707.7	19192.0	20270.6	17522.1
50°	14946.6	15037.8	15563.0	16377.5	17160.5	17500.1	18302.0	19223.4	20953.0	21990.7	18704.5
52.5°	15622.7	15660.5	16078.7	17163.6	18195.1	18616.5	19679.4	20754.9	22493.9	23484.4	19641.6
55°	16421.5	16358.6	16685.6	17997.0	19377.5	19927.8	21069.3	22305.2	24226.6	24692.0	20324.0
57.5°	17210.8	17113.3	17374.3	19009.6	20836.6	21500.1	22830.3	23902.7	25773.8	25820.9	20802.0
60°	18047.3	17975.0	18286.3	20198.3	22625.9	23412.1	24641.7	25559.9	27270.6	26607.1	20877.5
62.5°	18905.8	18789.4	19232.8	21534.7	24641.7	25355.5	26547.4	27320.9	28739.2	26899.6	20151.1
65°	19739.1	19685.7	20371.2	23122.8	26937.3	27748.6	28905.9	29431.0	29915.3	26459.3	18349.2
67.5°	20625.9	20732.8	21827.2	25242.3	29931.0	30949.9	32198.3	31704.6	30251.8	24374.4	15452.9
70°	21978.1	22047.3	23739.2	28019.1	33789.5	35019.1	35622.9	32512.8	28629.1	20415.2	11616.4
72.5°	22559.9	22864.9	25446.7	30934.2	38173.2	38924.8	36773.8	30710.9	23849.2	13868.0	6103.8
73°	22431.0	22795.8	25525.3	31377.6	38516.0	39305.3	36528.6	29783.2	22170.0	11943.5	5232.7
75°	20824.0	21273.7	24503.3	31006.5	37849.3	37377.6	32585.1	25383.8	14981.2	5430.9	2383.7
77.5°	16430.9	16559.9	19415.2	25037.9	29805.2	28931.0	24387.0	15864.9	6119.5	2018.9	1352.2
80°	8242.2	8717.0	10943.5	14342.9	19931.0	19644.8	15393.2	7503.2	2550.3	1185.5	896.2
82.5°	3965.4	4301.9	5330.2	6993.8	11012.7	10751.6	7622.7	4100.7	1619.5	691.8	528.3
85°	2553.5	2805.1	3393.1	3336.5	4528.3	4323.9	3424.6	3103.8	959.1	361.6	367.9
87.5°	1685.5	1845.9	2213.9	1770.5	1647.8	1490.6	1512.6	1748.4	188.7	138.4	50.3
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°	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1	9783.1
2.5°	9676.2	9635.3	9500.1	9368.0	9242.2	9122.7	9044.1	8940.3	8871.1	8890.0	8918.3
5°	9434.0	9342.8	9103.8	8871.1	8651.0	8390.0	8179.3	8009.5	7880.6	7833.4	7824.0
7.5°	9179.3	9025.2	8682.4	8283.1	7908.9	7585.0	7210.7	7025.2	6808.2	6732.8	6707.6
10°	9025.2	8817.7	8336.5	7779.9	7217.0	6679.3	6273.6	5943.4	5644.7	5588.1	5559.8
12.5°	8981.2	8707.6	8059.8	7342.8	6594.4	5934.0	5333.4	4899.4	4610.1	4544.1	4446.6
15°	8956.0	8616.4	7801.9	6902.6	5952.9	5147.8	4515.8	4009.5	3745.3	3569.2	3572.4
17.5°	8934.0	8512.6	7512.6	6421.4	5399.4	4471.7	3773.6	3317.6	3075.5	2981.2	2971.7
20°	8902.6	8390.0	7179.3	5915.1	4767.3	3855.4	3223.3	2883.7	2720.1	2641.5	2638.4
22.5°	8890.0	8270.5	6852.2	5399.4	4207.6	3380.5	2858.5	2619.5	2515.7	2462.3	2462.3
25°	8921.4	8185.6	6509.5	4908.8	3710.7	2974.9	2606.9	2443.4	2383.7	2355.4	2345.9
27.5°	9018.9	8147.9	6169.9	4418.3	3254.7	2698.1	2437.1	2323.9	2279.9	2257.9	2261.0
30°	9204.5	8144.7	5836.5	3934.0	2915.1	2487.4	2301.9	2223.3	2188.7	2176.1	2173.0
32.5°	9503.2	8213.9	5509.5	3534.6	2628.9	2311.3	2176.1	2119.5	2103.8	2094.4	2091.2
35°	10009.5	8408.9	5185.6	3169.8	2408.8	2154.1	2056.6	2028.3	2006.3	2015.7	2018.9
37.5°	10691.9	8745.3	4877.4	2883.7	2242.2	2037.7	1956.0	1930.8	1918.3	1927.7	1937.1
40°	11607.0	9229.6	4619.5	2654.1	2122.7	1940.3	1867.9	1845.9	1833.3	1849.1	1852.2
42.5°	12616.4	9789.4	4405.7	2474.9	2025.2	1858.5	1789.3	1764.2	1754.7	1764.2	1767.3
45°	13654.2	10440.3	4295.6	2345.9	1943.4	1798.8	1726.4	1698.1	1676.1	1669.8	1679.3
47.5°	14676.2	11006.4	4292.5	2267.3	1877.4	1745.3	1666.7	1635.2	1606.9	1591.2	1588.1
50°	15509.5	11456.1	4368.0	2232.7	1820.8	1685.5	1606.9	1575.5	1537.7	1506.3	1512.6
52.5°	16138.5	11748.5	4402.5	2217.0	1789.3	1622.7	1544.0	1515.7	1471.7	1430.8	1430.8
55°	16544.1	11817.7	4317.6	2201.3	1764.2	1556.6	1471.7	1446.6	1402.5	1361.6	1361.6
57.5°	16682.5	11603.9	4012.6	2163.5	1739.0	1500.0	1399.4	1377.4	1342.8	1301.9	1295.6
60°	16361.7	10880.6	3478.0	2050.3	1688.7	1440.3	1320.8	1311.3	1298.8	1264.2	1261.0
62.5°	15125.9	9346.0	2896.2	1902.5	1603.8	1377.4	1248.4	1264.2	1273.6	1254.7	1251.6
65°	13069.3	7588.1	2474.9	1698.1	1490.6	1289.3	1169.8	1210.7	1235.9	1235.9	1229.6
67.5°	10600.7	5827.1	2084.9	1522.0	1349.1	1169.8	1081.8	1113.2	1132.1	1125.8	1141.5
70°	7534.6	3946.6	1698.1	1320.8	1169.8	1034.6	968.6	968.6	956.0	949.7	949.7
72.5°	3654.1	2254.7	1377.4	1103.8	996.9	883.7	830.2	808.2	783.0	779.9	764.2
73°	3053.5	2022.0	1314.5	1062.9	956.0	861.6	801.9	767.3	751.6	739.0	735.9
75°	1858.5	1534.6	1097.5	896.2	814.5	742.1	688.7	657.2	641.5	632.1	628.9
77.5°	1223.3	1144.7	852.2	685.5	622.6	578.6	556.6	525.2	515.7	503.1	503.1
80°	912.0	874.2	610.1	484.3	446.5	408.8	402.5	396.2	371.1	355.3	349.1
82.5°	588.1	622.6	415.1	323.9	283.0	251.6	254.7	264.2	239.0	217.0	210.7
85°	418.2	449.7	251.6	147.8	119.5	103.8	116.4	103.8	106.9	84.9	69.2
87.5°	69.2	119.5	44.0	18.9	9.4	6.3	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)