

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: P458349

Luminaire Tested: **GALN-SA9D-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52537 lumens  
Efficiency: N/A  
Efficacy: 95.2 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

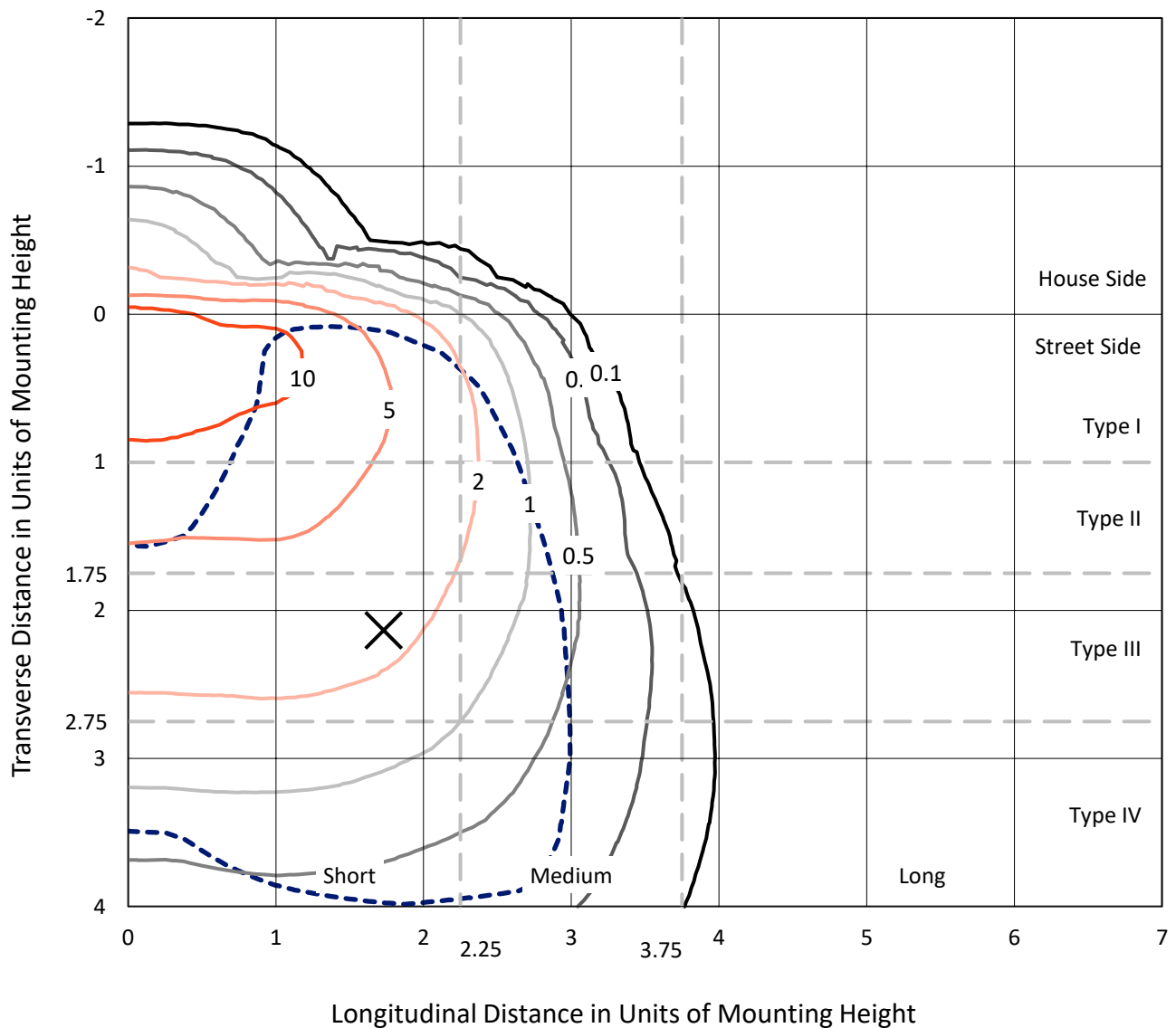
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

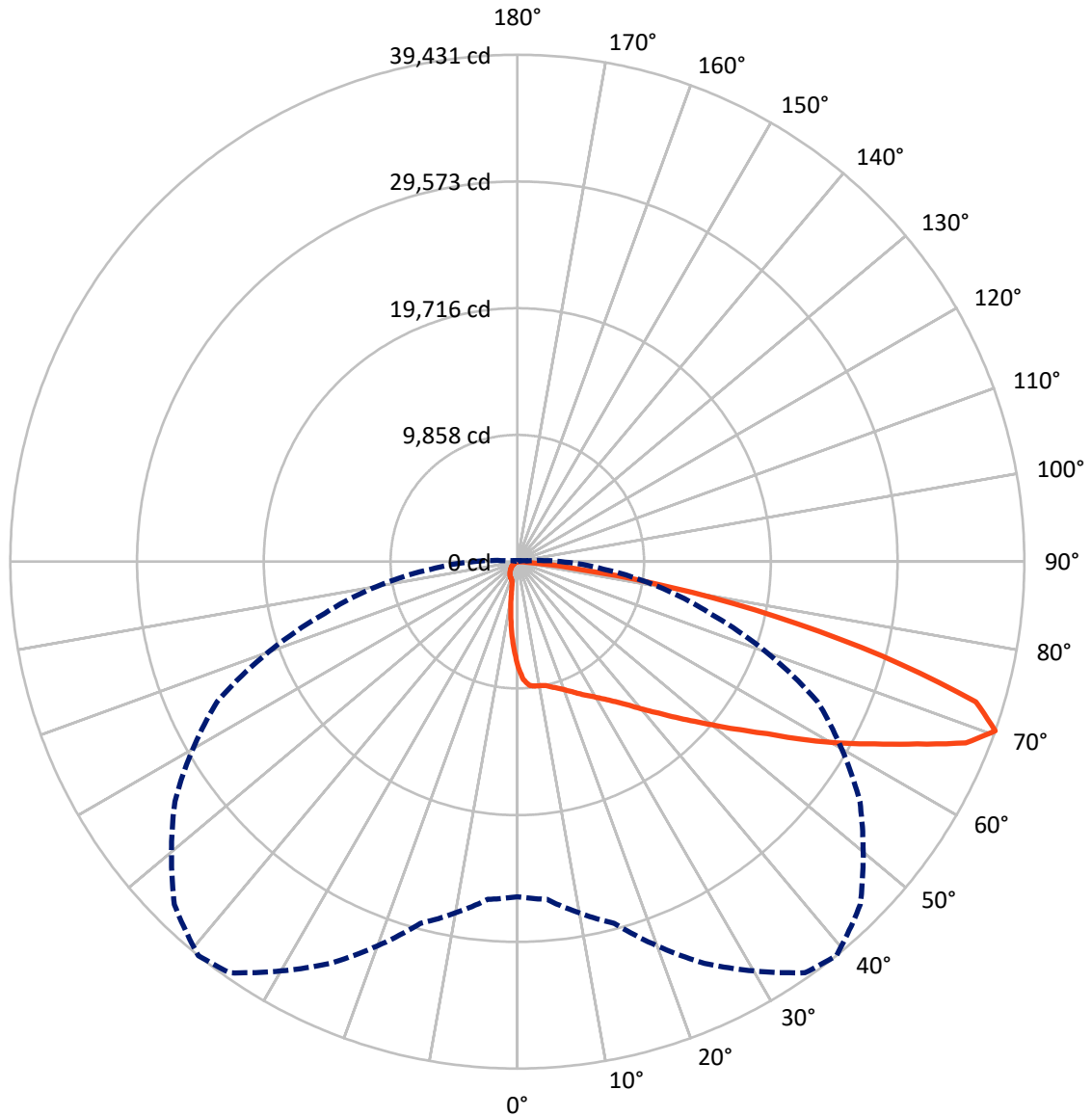
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3425.7	0.0	3425.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	49111.3	0.0	49111.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	52537.0	0.0	52537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.2	1.3
10°-20°	1817.0	3.5
20°-30°	3044.0	5.8
30°-40°	4720.9	9.0
40°-50°	7481.1	14.2
50°-60°	10966.3	20.9
60°-70°	14056.1	26.8
70°-80°	8832.4	16.8
80°-90°	920.1	1.8
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°	52537.0	100.0
0°-180°	52537.0	100.0

**Coefficient of Utilization**



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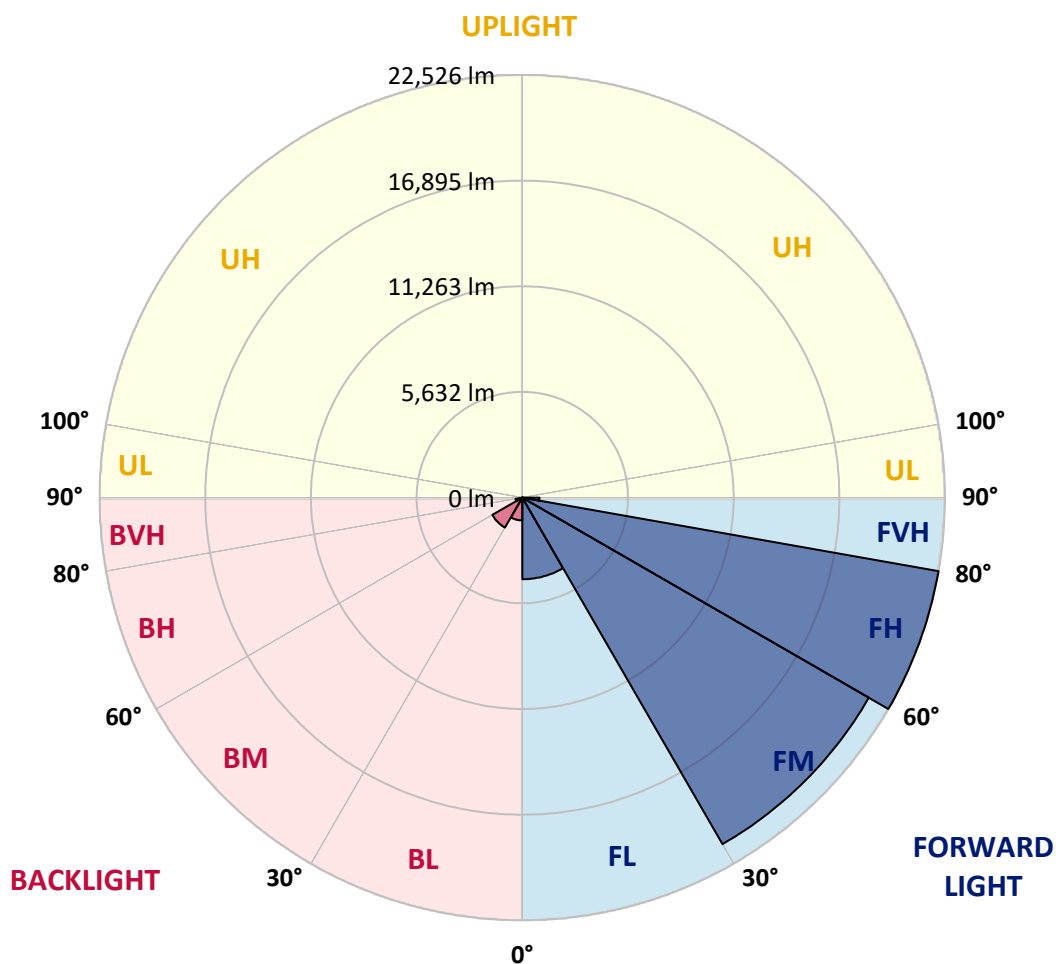
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4347.2	8.3			
FM (30°-60°)	21324.7	40.6			
FH (60°-80°)	22526.2	42.9			G5
FVH (80°-90°)	913.4	1.7			G5
BL (0°-30°)	1213.0	2.3	B3/2500		
BM (30°-60°)	1843.6	3.5	B2/2500		
BH (60°-80°)	362.3	0.7	B1/500		G1/500
BVH (80°-90°)	6.8	0.0			G0/10
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°	39°	45°	55°	65°	75°	85°
0°	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6
2.5°	9472.0	9440.3	9397.9	9348.5	9207.3	9182.6	9097.8	8917.8	8702.4	8525.9	8282.3
5°	9920.4	9938.1	9906.3	9818.0	9715.6	9655.6	9549.7	9270.8	8991.9	8635.3	8236.4
7.5°	10022.8	10058.1	10019.3	9934.5	9835.7	9772.1	9687.4	9447.3	9122.5	8716.5	8169.3
10°	10012.2	10054.6	10029.8	9952.2	9871.0	9811.0	9719.2	9528.5	9267.3	8840.1	8190.5
12.5°	9994.5	10051.0	10047.5	10008.7	9941.6	9895.7	9839.2	9669.7	9426.2	9020.2	8307.0
15°	9945.1	10015.7	10079.3	10111.0	10114.6	10114.6	10044.0	9863.9	9630.9	9256.7	8458.8
17.5°	9966.3	10047.5	10206.4	10298.2	10361.7	10354.6	10280.5	10086.3	9828.6	9500.3	8617.7
20°	10096.9	10206.4	10428.8	10612.4	10675.9	10654.7	10555.9	10329.9	10036.9	9708.6	8773.0
22.5°	10418.2	10517.0	10795.9	11011.3	11057.2	11000.7	10859.5	10552.3	10287.6	9934.5	8960.1
25°	10898.3	11014.8	11272.5	11434.9	11434.9	11403.2	11205.5	10845.4	10570.0	10248.7	9203.7
27.5°	11480.8	11579.7	11833.9	11978.6	11893.9	11802.1	11604.4	11170.2	10905.4	10644.1	9496.8
30°	12070.4	12134.0	12402.3	12465.8	12377.6	12261.1	12049.2	11615.0	11382.0	11180.8	9920.4
32.5°	12628.2	12765.9	12988.3	12974.2	12854.2	12797.7	12603.5	12141.0	12010.4	11989.2	10513.5
35°	13186.0	13291.9	13489.6	13539.1	13433.1	13422.6	13281.3	12938.9	12942.4	13080.1	11438.5
37.5°	13666.2	13761.5	13994.5	14103.9	14125.1	14178.1	14121.6	13895.6	14216.9	14594.6	12663.5
40°	14068.6	14202.8	14499.3	14690.0	14908.9	15103.0	15113.6	15163.0	15809.1	16458.7	14262.8
42.5°	14382.8	14569.9	15000.6	15353.7	15855.0	16102.1	16299.8	16571.7	17659.0	18629.9	16148.0
45°	14792.3	15007.7	15544.3	16098.6	16882.3	17288.3	17563.7	18291.0	19833.8	21157.6	18082.7
47.5°	15470.2	15583.2	16130.4	16938.8	17969.7	18548.7	19085.3	20186.8	22167.3	23353.6	19692.5
50°	16342.2	16416.3	16829.4	17952.1	19286.5	20049.1	21027.0	22322.7	24589.2	25175.2	20603.4
52.5°	17306.0	17330.7	17641.4	19067.7	20762.2	21722.5	22816.9	24416.2	26562.7	26474.4	21207.1
55°	18425.1	18389.8	18654.6	20278.6	22509.8	23607.7	24882.2	26559.2	28274.9	27395.9	21553.1
57.5°	19706.7	19611.3	19869.1	21884.9	24748.1	26061.4	27357.0	28409.1	29602.4	28169.0	21719.0
60°	21048.2	20857.6	21164.7	23688.9	27385.3	28631.5	29708.3	29990.7	31000.4	28783.3	21433.0
62.5°	22117.9	22121.4	22693.4	25609.5	30096.6	31187.5	31759.4	32013.6	32204.3	28649.1	19929.1
65°	23787.8	23844.3	24758.7	28274.9	33235.1	34181.3	34573.1	33747.0	32257.2	26982.8	17669.6
67.5°	25510.6	25690.7	27364.1	31946.5	36860.8	37623.4	37118.6	34082.4	30816.8	23180.6	13397.8
70°	26072.0	26368.5	29125.7	34474.3	39035.6	39431.0	37722.3	32518.5	25761.3	15498.4	6743.1
72.5°	23890.2	24370.3	28112.5	33552.9	37648.1	37305.7	33750.6	27272.3	16377.5	5885.2	2058.2
75°	16847.0	17058.9	23364.1	27833.6	30280.2	29309.3	25673.0	17581.4	6736.0	1652.2	706.1
77.5°	8698.9	8596.5	13895.6	18467.5	21595.4	20589.3	16811.7	9101.4	2552.5	688.4	437.8
80°	4497.7	4571.9	6012.3	9676.8	13182.5	12130.4	8963.7	4218.8	1359.2	381.3	335.4
82.5°	2520.7	2365.4	3456.3	4225.9	6164.1	4833.1	3438.6	2986.7	593.1	229.5	317.7
85°	459.0	480.1	1895.8	2284.2	2139.4	1359.2	1108.5	1994.7	173.0	127.1	222.4
87.5°	7.1	7.1	367.2	656.7	416.6	190.6	349.5	286.0	35.3	49.4	38.8
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°	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6	8197.6
2.5°	8158.7	8024.6	7773.9	7526.8	7212.6	6954.9	6781.9	6601.8	6418.3	6432.4	6474.7
5°	8017.5	7784.5	7290.3	6767.8	6266.4	5814.6	5369.7	4970.8	4808.4	4660.1	4667.2
7.5°	7876.3	7548.0	6824.3	6005.2	5246.2	4476.5	3918.7	3459.8	3216.2	3032.6	2979.7
10°	7812.8	7378.5	6397.1	5270.9	4194.1	3353.9	2637.2	2263.0	1973.5	1881.7	1906.4
12.5°	7841.0	7293.8	6012.3	4607.2	3325.6	2337.1	1835.8	1645.2	1581.6	1571.0	1564.0
15°	7894.0	7233.8	5634.5	3872.8	2443.0	1737.0	1542.8	1507.5	1500.4	1493.4	1496.9
17.5°	7964.6	7180.8	5232.0	3184.4	1874.6	1518.1	1461.6	1443.9	1440.4	1440.4	1440.4
20°	8035.2	7120.8	4783.7	2570.1	1564.0	1433.3	1398.0	1387.4	1383.9	1383.9	1380.4
22.5°	8116.4	7067.8	4328.3	2019.4	1440.4	1373.3	1341.5	1334.5	1331.0	1327.4	1327.4
25°	8232.9	7000.8	3844.6	1652.2	1362.7	1316.8	1285.1	1278.0	1274.5	1260.4	1263.9
27.5°	8388.2	6951.3	3346.8	1426.3	1292.1	1246.2	1225.0	1214.5	1207.4	1196.8	1200.3
30°	8600.0	6909.0	2817.3	1302.7	1210.9	1172.1	1150.9	1143.8	1136.8	1126.2	1126.2
32.5°	8967.2	6926.6	2259.5	1203.9	1136.8	1090.9	1069.7	1062.6	1055.6	1045.0	1045.0
35°	9517.9	7029.0	1807.6	1119.1	1048.5	1002.6	981.4	981.4	970.9	956.7	953.2
37.5°	10418.2	7290.3	1451.0	1037.9	963.8	921.4	896.7	889.7	879.1	857.9	854.4
40°	11480.8	7696.3	1221.5	956.7	886.1	843.8	822.6	801.4	773.2	752.0	748.4
42.5°	12815.3	8112.8	1059.1	875.5	812.0	773.2	748.4	713.1	670.8	642.5	639.0
45°	14206.3	8494.1	949.7	801.4	741.4	709.6	681.4	624.9	571.9	536.6	533.1
47.5°	15244.2	8564.7	861.4	730.8	681.4	649.6	610.8	540.2	469.5	437.8	427.2
50°	15735.0	8222.3	769.6	660.2	621.3	586.0	536.6	455.4	377.8	338.9	331.9
52.5°	15908.0	7629.2	695.5	596.6	561.3	519.0	459.0	367.2	296.6	257.7	254.2
55°	15837.3	6880.7	628.4	536.6	490.7	441.3	381.3	293.0	218.9	187.1	180.1
57.5°	15466.7	5927.5	561.3	476.6	420.1	370.7	303.6	218.9	148.3	120.0	116.5
60°	14467.6	4628.3	494.3	409.5	356.6	303.6	240.1	155.3	91.8	67.1	67.1
62.5°	12780.0	3435.1	430.7	342.4	300.1	243.6	169.5	98.9	49.4	35.3	31.8
65°	10679.4	2534.8	360.1	289.5	250.7	190.6	120.0	60.0	24.7	10.6	7.1
67.5°	7452.7	1564.0	300.1	236.5	204.8	137.7	74.1	24.7	10.6	0.0	0.0
70°	3385.6	744.9	229.5	180.1	155.3	98.9	38.8	14.1	7.1	0.0	0.0
72.5°	1052.1	391.9	162.4	130.6	105.9	63.5	21.2	10.6	7.1	0.0	0.0
75°	487.2	250.7	102.4	70.6	60.0	31.8	14.1	7.1	3.5	0.0	0.0
77.5°	363.6	194.2	60.0	38.8	31.8	21.2	10.6	7.1	3.5	0.0	0.0
80°	317.7	98.9	35.3	24.7	17.7	14.1	7.1	3.5	0.0	0.0	0.0
82.5°	286.0	49.4	21.2	14.1	10.6	7.1	3.5	3.5	0.0	0.0	0.0
85°	155.3	28.2	14.1	10.6	7.1	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	28.2	14.1	10.6	7.1	7.1	3.5	3.5	3.5	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)