

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: INVUE

Report Number: P367300

Luminaire Tested: **MSA-SA2B-730-U-T4FT**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2B-730-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9093 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

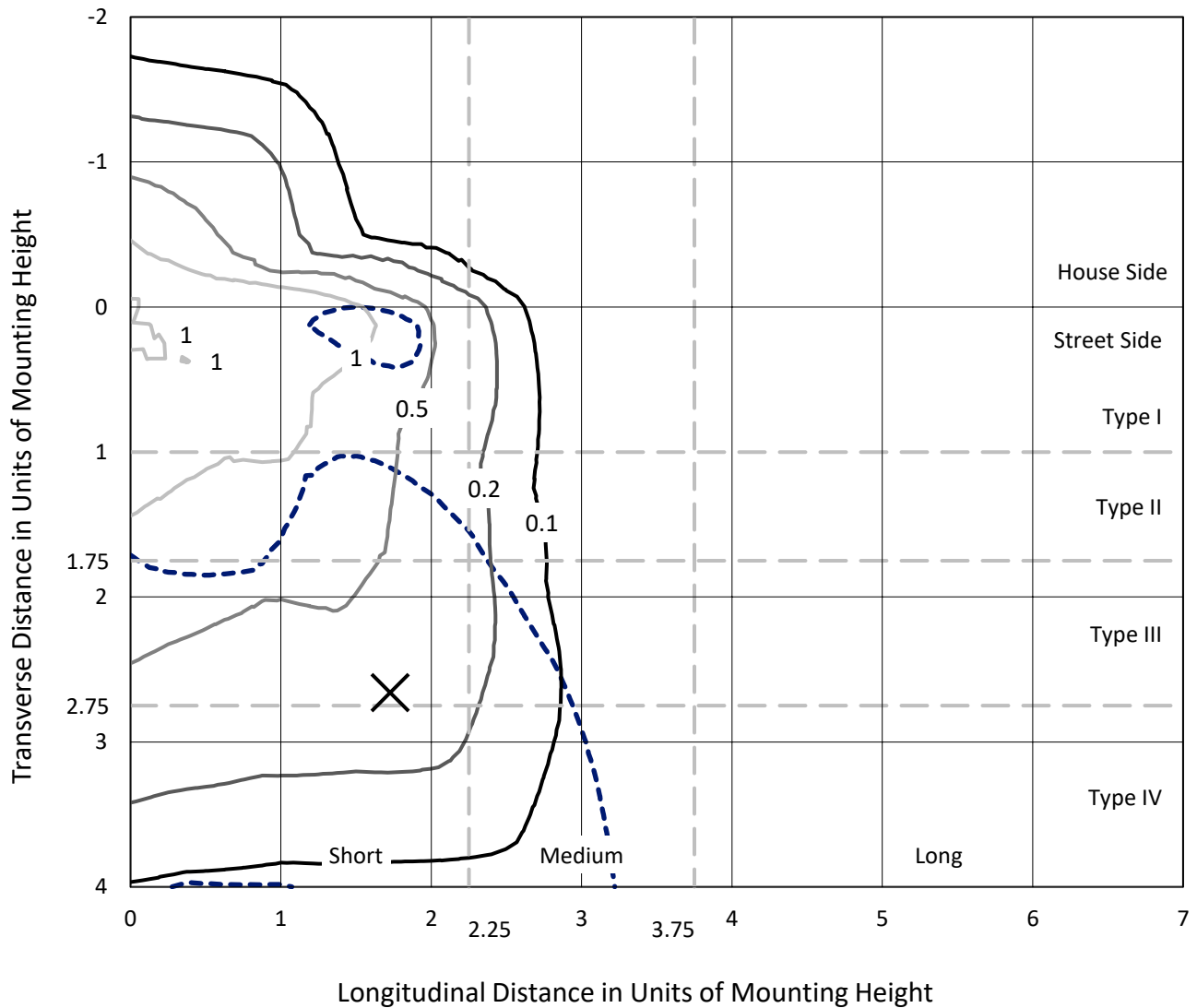
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

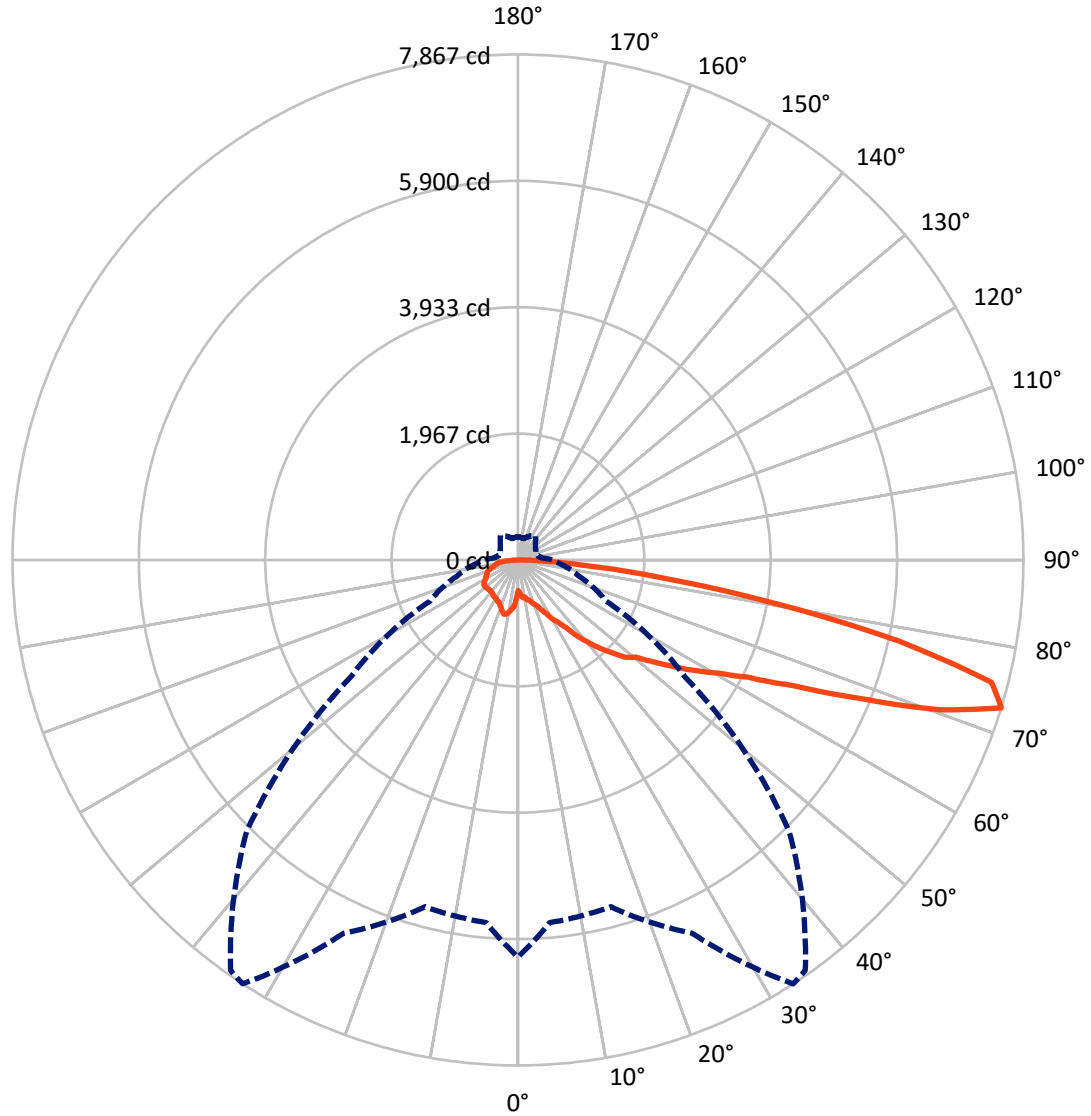
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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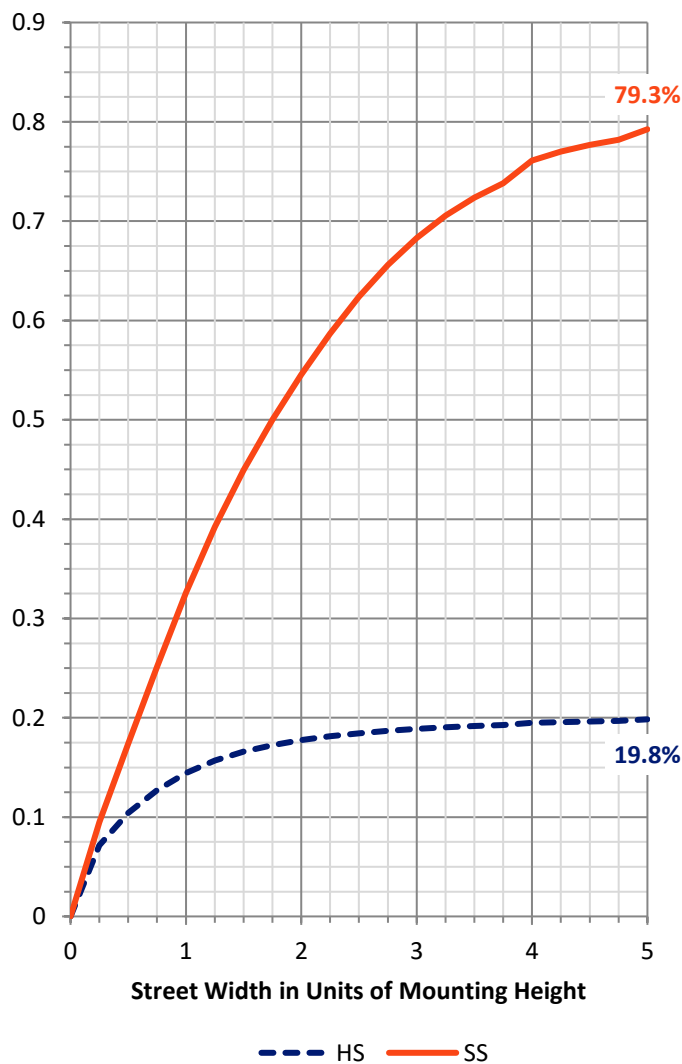
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1839.5	0.0	1839.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	7253.5	0.0	7253.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	9093.0	0.0	9093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	0.7
10°-20°	242.3	2.7
20°-30°	441.8	4.9
30°-40°	747.4	8.2
40°-50°	1243.4	13.7
50°-60°	1824.8	20.1
60°-70°	2334.4	25.7
70°-80°	1899.2	20.9
80°-90°	294.2	3.2
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°	9093.0	100.0
0°-180°	9093.0	100.0

Coefficient of Utilization



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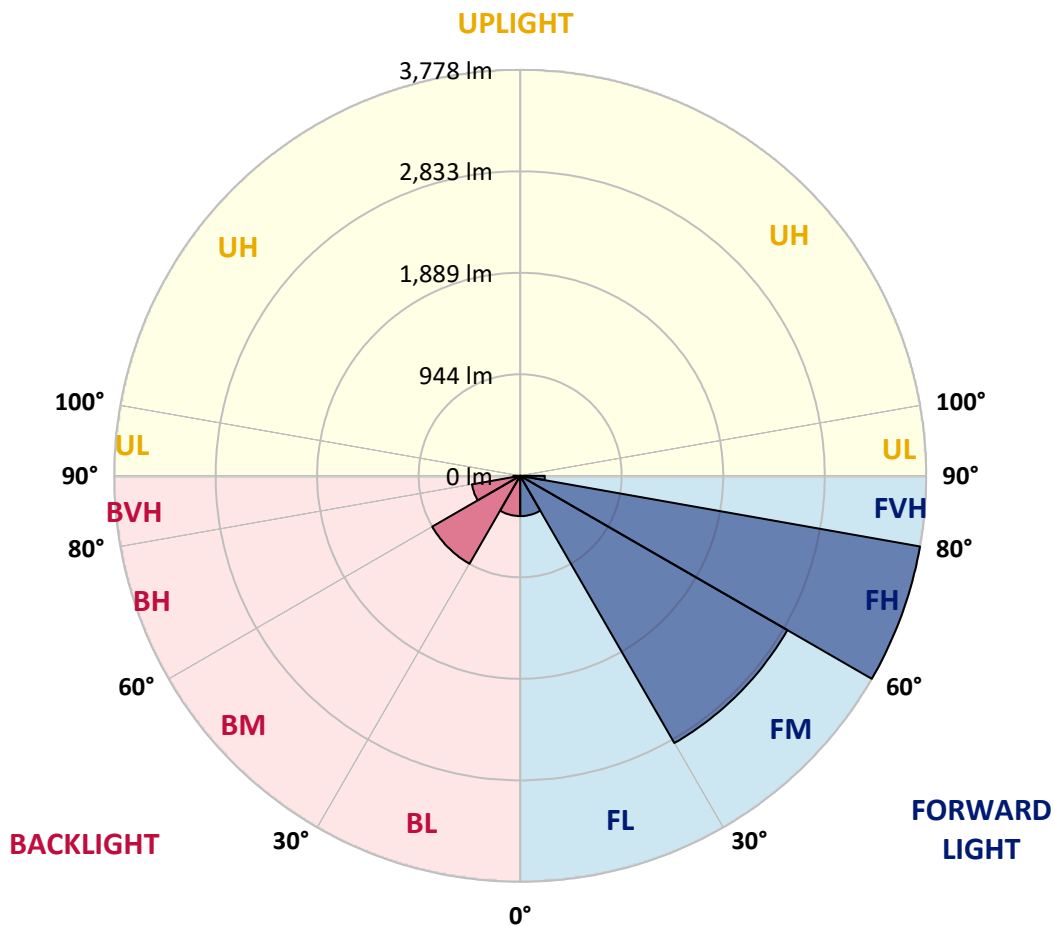
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.3	4.1			
FM (30°-60°)	2870.9	31.6			
FH (60°-80°)	3777.8	41.5			G2/5000
FVH (80°-90°)	229.6	2.5			G3/500
BL (0°-30°)	374.4	4.1	B1/500		
BM (30°-60°)	944.8	10.4	B1/1000		
BH (60°-80°)	455.8	5.0	B1/500		G1/500
BVH (80°-90°)	64.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8
2.5°	540.6	523.6	495.7	494.9	510.4	513.8	524.0	524.7	528.5	522.4	565.4
5°	596.4	578.3	567.3	571.1	563.9	572.6	572.6	597.5	630.7	669.2	723.9
7.5°	609.6	596.4	583.9	593.4	594.9	586.6	594.5	653.0	712.9	751.4	838.9
10°	583.2	570.0	579.4	582.4	582.0	600.9	642.0	688.8	755.6	826.5	873.6
12.5°	578.3	587.7	592.2	597.5	633.3	639.0	701.2	749.5	816.7	878.9	1001.5
15°	651.1	663.5	635.6	633.7	645.4	650.7	715.2	763.9	861.9	966.4	1076.6
17.5°	754.8	759.3	709.2	683.5	692.2	696.3	724.6	785.7	846.1	1039.2	1176.5
20°	855.1	858.2	763.9	706.5	737.1	741.6	768.0	803.1	850.6	1080.0	1244.1
22.5°	960.4	941.2	837.8	765.4	783.1	784.2	799.7	818.9	886.5	1073.6	1326.3
25°	1075.4	1063.4	933.2	863.8	863.1	847.6	848.4	875.9	924.6	1142.2	1380.2
27.5°	1228.2	1229.7	1040.7	1003.4	944.9	934.7	883.8	935.1	990.6	1143.0	1496.8
30°	1426.3	1389.7	1190.5	1130.1	1072.4	1050.9	981.9	1025.7	1049.8	1208.2	1623.5
32.5°	1587.3	1576.8	1346.7	1255.4	1161.1	1186.0	1109.8	1071.3	1114.7	1320.6	1815.5
35°	1741.6	1706.9	1511.9	1393.1	1293.9	1278.8	1229.3	1235.8	1262.2	1462.8	2066.4
37.5°	1971.7	1952.8	1745.8	1555.6	1509.2	1447.8	1416.4	1436.4	1415.7	1645.0	2442.5
40°	2229.0	2119.6	1941.2	1771.8	1685.0	1641.6	1652.6	1633.7	1617.9	1849.5	2779.7
42.5°	2475.3	2375.7	2070.9	1994.7	1881.6	1899.7	1839.7	1852.9	1897.8	2139.6	3091.7
45°	2743.5	2528.1	2208.6	2141.5	2060.4	2083.4	2131.3	2116.9	2190.5	2481.7	3385.5
47.5°	2877.4	2672.6	2377.6	2268.2	2267.1	2219.2	2510.8	2542.4	2427.4	2735.2	3683.9
50°	3006.4	2805.0	2503.2	2429.3	2375.7	2478.3	2874.8	2802.0	2641.6	3026.0	4012.1
52.5°	3186.0	2956.2	2647.3	2568.5	2634.9	2729.9	3165.2	3150.9	2851.8	3325.2	4297.2
55°	3322.9	3090.9	2864.2	2791.0	2917.8	3010.9	3461.0	3374.6	3031.7	3544.7	4477.9
57.5°	3562.8	3324.8	3184.5	3021.9	3249.7	3248.2	3746.1	3679.4	3224.1	3725.0	4550.7
60°	3944.2	3664.7	3517.9	3330.4	3574.5	3661.6	4072.1	3879.7	3360.2	3838.9	4419.5
62.5°	4479.4	4147.5	3909.5	3723.9	4021.5	4179.2	4474.5	4025.7	3368.9	3806.5	4074.3
65°	5141.5	4737.8	4425.9	4229.7	4720.9	4946.1	4961.2	4115.8	3288.9	3471.1	3348.5
67.5°	5787.3	5333.5	5007.9	5045.3	5762.4	5869.1	5488.5	4191.3	2859.3	2787.3	2325.2
70°	6212.4	5720.5	5503.6	5899.7	6989.1	6879.7	5915.9	3992.5	2251.6	1806.9	1309.3
72.5°	6180.3	5665.4	5587.3	6407.4	7866.5	7798.2	5967.9	3175.0	1508.1	987.9	653.0
75°	5035.1	4634.9	4812.1	6065.6	7613.7	7610.3	5181.4	1965.3	773.7	507.4	412.7
77.5°	2783.9	2628.4	3149.4	4592.6	6062.2	6093.2	3500.9	891.4	417.2	359.5	310.8
80°	975.1	960.8	1364.8	2478.3	3987.9	3995.5	1628.1	407.8	303.3	272.0	228.2
82.5°	356.5	353.5	565.8	1151.3	2195.8	2190.9	617.5	253.9	224.8	192.4	150.5
85°	142.2	139.2	258.8	511.1	1008.7	992.5	239.9	144.1	147.1	114.7	73.9
87.5°	39.2	40.7	87.9	159.9	308.9	286.3	60.4	48.7	59.6	46.8	23.4
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°	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8
2.5°	573.0	576.8	539.4	552.6	569.6	578.6	583.2	563.9	570.4	597.5	596.4
5°	735.2	720.1	705.8	720.5	710.7	696.7	719.4	718.2	732.9	747.6	751.0
7.5°	856.3	836.7	829.9	796.7	763.5	729.9	759.0	777.1	780.8	817.4	832.9
10°	900.0	892.5	895.1	851.4	847.2	850.6	823.8	794.8	812.5	797.4	808.8
12.5°	1001.1	1020.0	973.2	943.4	940.8	920.0	866.5	847.6	827.6	848.4	837.8
15°	1082.2	1117.3	1067.1	1014.7	955.5	923.4	877.8	849.1	835.9	840.4	827.6
17.5°	1201.1	1233.9	1106.4	1026.0	964.9	917.8	848.0	786.9	819.3	822.0	807.2
20°	1279.9	1282.2	1119.6	998.1	943.0	861.2	793.3	739.7	777.1	815.2	831.8
22.5°	1356.8	1339.9	1135.8	975.9	863.4	784.2	751.0	747.6	775.6	807.6	811.4
25°	1414.6	1417.2	1145.2	967.6	816.7	708.8	708.8	733.3	757.8	834.0	830.3
27.5°	1554.5	1451.5	1108.6	929.5	751.8	664.7	709.2	742.0	753.7	836.3	844.6
30°	1656.4	1589.2	1116.2	864.2	686.2	643.9	680.5	721.6	754.1	849.5	846.5
32.5°	1827.2	1646.5	1133.9	772.5	637.1	636.0	668.4	711.8	750.7	835.2	839.7
35°	2016.2	1815.5	1084.5	702.8	625.4	631.5	673.3	690.7	736.3	829.5	833.6
37.5°	2365.9	1903.8	1053.2	648.8	617.9	635.2	651.1	677.9	723.9	801.2	828.4
40°	2571.1	2085.6	937.0	617.5	602.0	632.2	640.1	662.8	687.7	767.3	784.6
42.5°	2841.2	2143.0	837.8	582.8	594.1	619.8	643.5	649.2	665.8	713.7	745.4
45°	3066.4	2186.0	732.6	554.9	567.3	647.3	648.8	646.2	643.2	660.9	686.9
47.5°	3299.5	2301.4	635.6	524.0	557.1	669.9	651.5	627.3	614.9	617.1	641.3
50°	3556.8	2385.1	567.0	498.7	559.4	669.9	664.3	608.1	583.2	576.8	602.0
52.5°	3783.1	2394.9	514.9	478.3	550.0	646.9	673.0	596.0	554.1	538.7	562.4
55°	3906.5	2270.8	477.2	459.8	525.8	626.2	668.4	589.2	519.0	507.4	528.5
57.5°	3903.8	2064.9	445.1	434.2	498.3	597.1	643.2	552.2	497.5	490.8	511.5
60°	3763.1	1823.5	420.6	413.1	470.0	554.9	597.9	528.1	476.8	473.4	496.0
62.5°	3444.0	1574.1	396.8	390.8	443.6	525.1	576.4	501.3	455.3	454.9	476.4
65°	2820.4	1263.7	374.6	373.1	419.1	495.7	556.0	478.7	433.0	440.6	462.5
67.5°	1943.4	888.0	350.8	355.3	396.5	467.4	540.6	463.6	409.7	425.1	444.7
70°	1066.4	549.2	324.4	333.5	367.8	434.6	516.4	439.1	379.1	402.9	416.4
72.5°	542.4	366.3	291.6	305.9	332.7	386.3	471.1	403.6	346.3	355.3	362.5
75°	364.4	275.7	255.0	270.8	290.1	340.2	418.0	370.4	315.0	313.8	321.8
77.5°	275.4	215.4	216.5	234.6	247.1	299.1	375.7	342.5	288.6	285.9	297.6
80°	201.4	163.3	174.3	193.1	204.5	268.6	348.2	311.6	252.7	242.2	252.0
82.5°	133.5	115.8	129.0	147.9	156.9	224.4	316.1	264.4	206.0	179.2	180.7
85°	63.0	60.7	77.0	86.0	97.7	139.2	236.5	182.9	131.3	108.6	113.5
87.5°	14.3	19.2	25.3	24.9	29.0	37.3	73.6	51.3	38.1	26.0	17.4
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)