

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: P595053

Luminaire Tested: **IST-PA1B-735-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-735-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4771 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

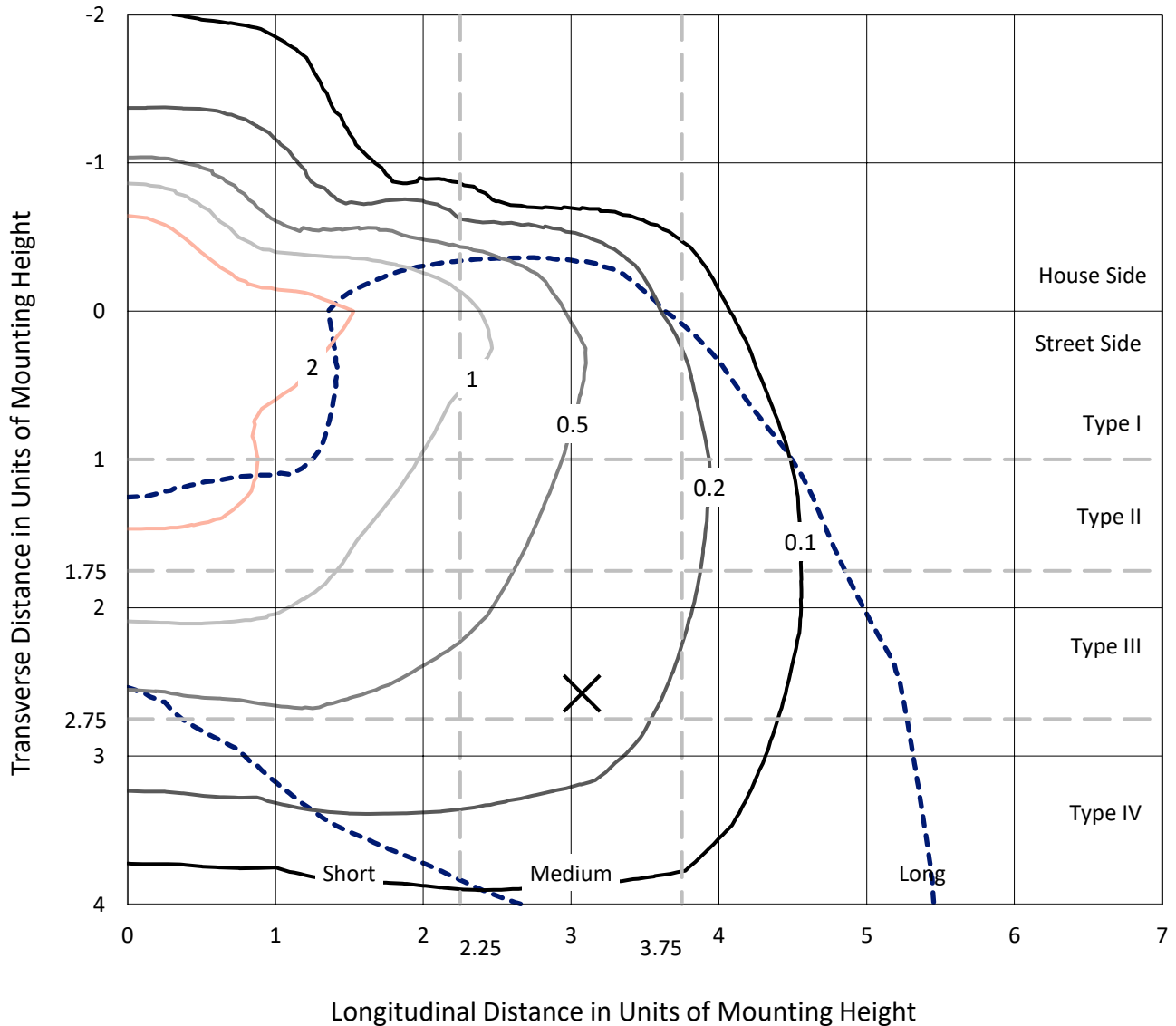
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595053
 CATALOG NUMBER: IST-PA1B-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

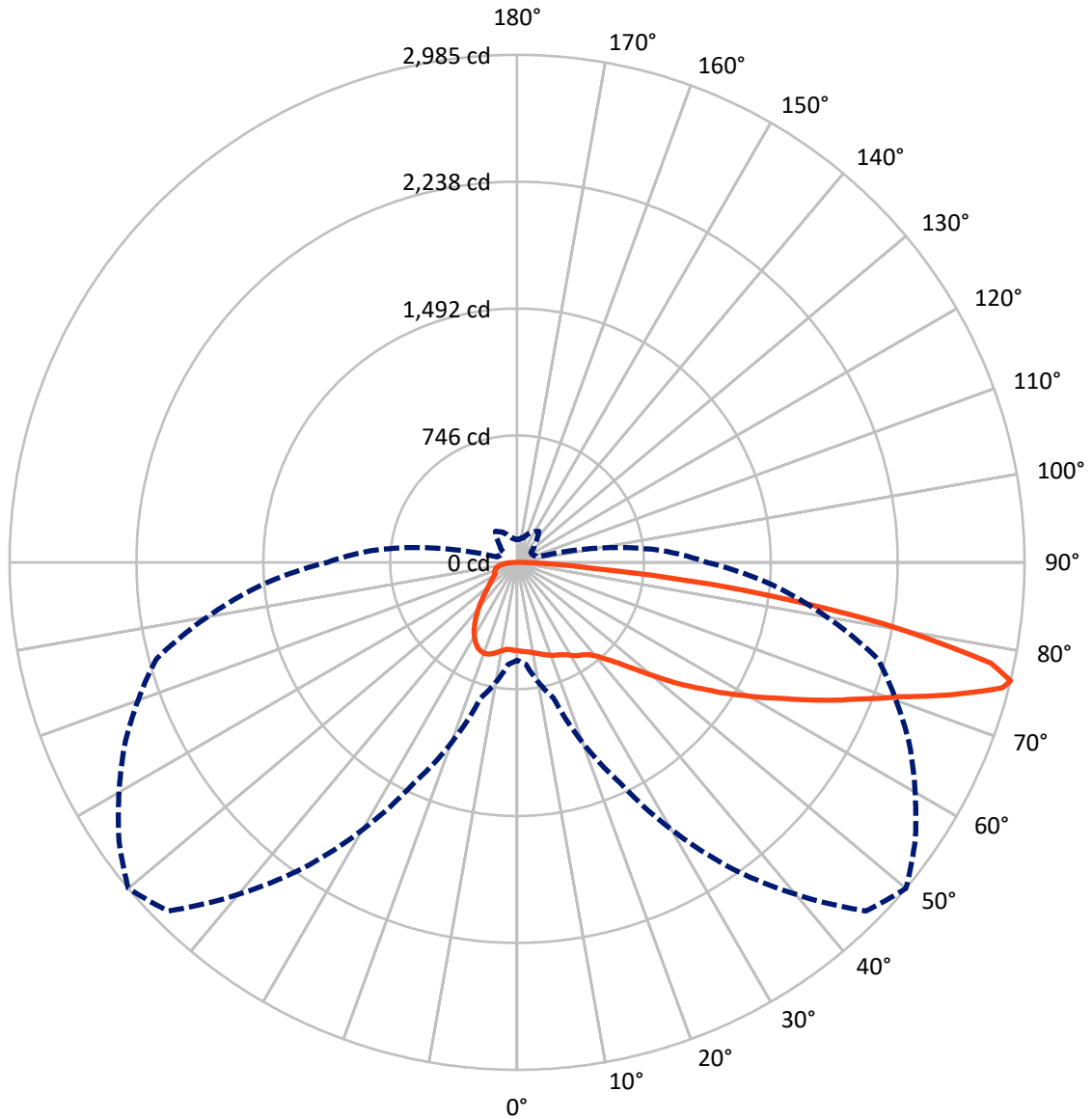
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595053
CATALOG NUMBER: IST-PA1B-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

REPORT NUMBER: P595053
 CATALOG NUMBER: IST-PA1B-735-U-T4W

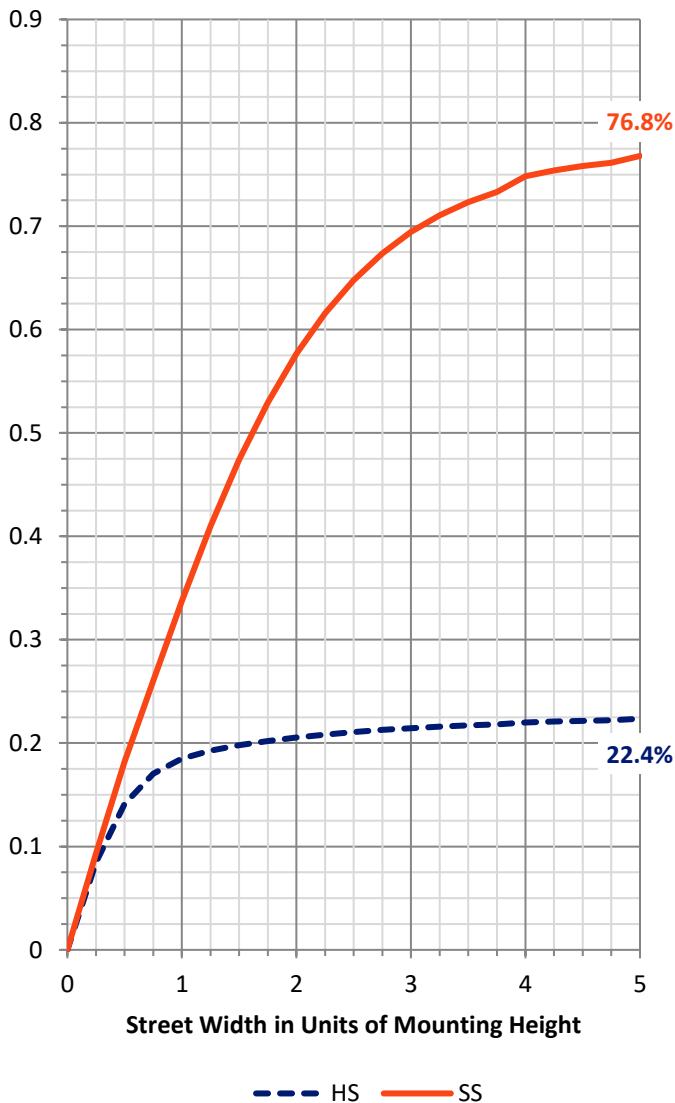
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.4	0.0	1091.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3679.6	0.0	3679.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	4771.0	0.0	4771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.1
10°-20°	158.8	3.3
20°-30°	268.2	5.6
30°-40°	367.6	7.7
40°-50°	541.4	11.3
50°-60°	851.6	17.9
60°-70°	1225.9	25.7
70°-80°	1114.7	23.4
80°-90°	192.4	4.0
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°	4771.0	100.0
0°-180°	4771.0	100.0

Coefficient of Utilization

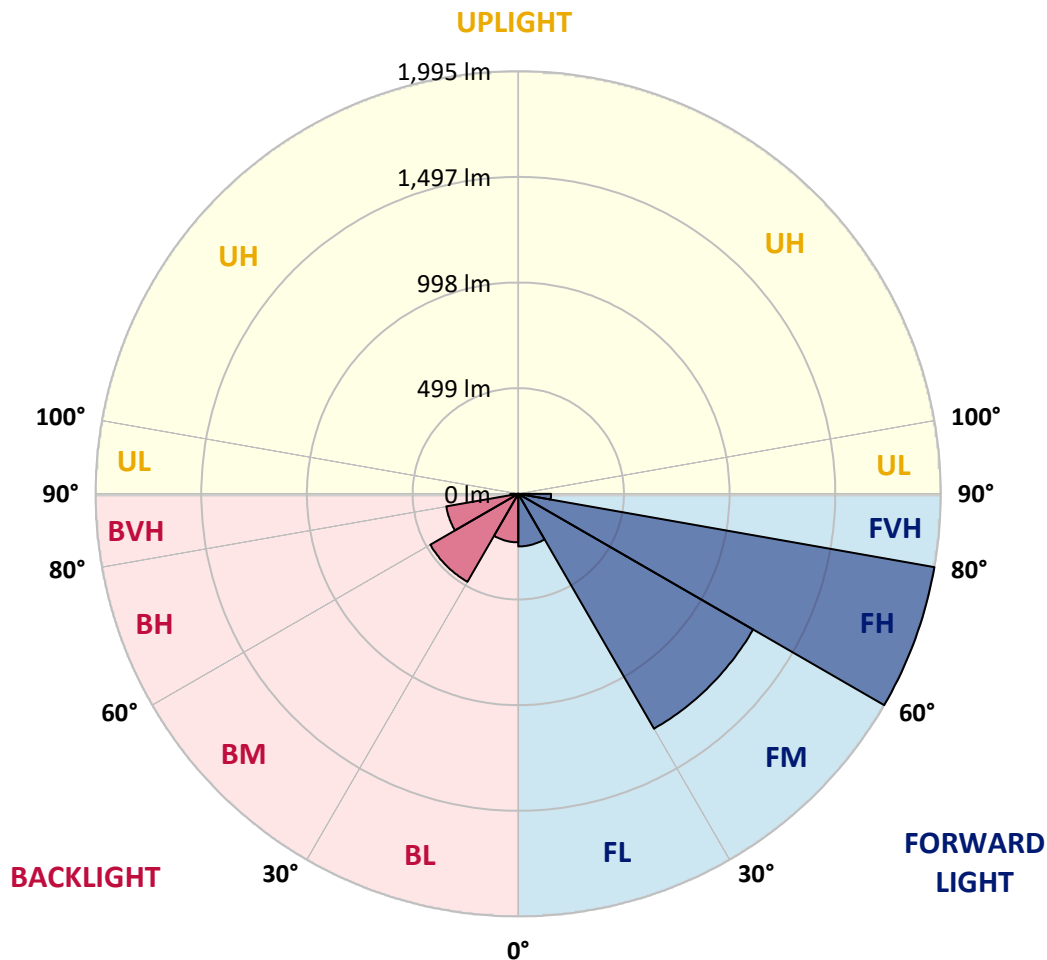


REPORT NUMBER: P595053
 CATALOG NUMBER: IST-PA1B-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.3	5.2			
FM (30°-60°)	1280.9	26.8			
FH (60°-80°)	1995.4	41.8			G2/5000
FVH (80°-90°)	154.9	3.2			G2/225
BL (0°-30°)	229.1	4.8	B1/500		
BM (30°-60°)	479.7	10.1	B1/1000		
BH (60°-80°)	345.1	7.2	B1/500		G1/500
BVH (80°-90°)	37.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P595053
 CATALOG NUMBER: IST-PA1B-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
2.5°	531.7	531.7	532.9	530.5	530.5	524.7	524.7	523.5	521.2	520.0	517.7
5°	551.6	551.6	548.1	542.2	538.7	531.7	528.2	525.9	521.2	515.4	509.5
7.5°	572.6	570.3	567.9	558.6	551.6	538.7	532.9	529.4	520.0	511.8	508.3
10°	594.8	591.3	585.5	573.8	563.3	548.1	541.1	536.4	525.9	518.9	510.7
12.5°	607.7	607.7	600.7	586.6	572.6	553.9	550.4	544.6	534.1	524.7	516.5
15°	620.5	621.7	614.7	598.3	582.0	567.9	562.1	558.6	546.9	532.9	522.4
17.5°	633.4	632.2	625.2	606.5	589.0	576.1	572.6	567.9	556.3	543.4	532.9
20°	642.7	640.4	638.1	614.7	597.2	589.0	584.3	580.8	569.1	555.1	541.1
22.5°	645.1	647.4	645.1	617.0	603.0	593.7	592.5	589.0	579.6	566.8	552.7
25°	646.2	647.4	650.9	624.0	611.2	604.2	601.8	599.5	592.5	582.0	563.3
27.5°	652.1	653.2	653.2	628.7	621.7	617.0	614.7	614.7	611.2	598.3	579.6
30°	653.2	654.4	656.8	640.4	638.1	634.6	635.7	634.6	628.7	614.7	593.7
32.5°	661.4	662.6	668.4	647.4	649.7	653.2	654.4	653.2	641.6	629.9	612.3
35°	688.3	687.1	691.8	664.9	662.6	663.8	667.3	666.1	661.4	650.9	639.2
37.5°	774.8	774.8	761.9	705.8	688.3	686.0	688.3	694.1	695.3	686.0	676.6
40°	926.7	918.5	911.5	790.0	733.9	719.9	726.9	730.4	739.7	739.7	739.7
42.5°	1083.3	1084.5	1082.1	920.9	815.7	780.6	781.8	790.0	809.8	813.3	823.9
45°	1222.4	1230.5	1248.1	1072.8	936.1	857.8	849.6	857.8	885.8	909.2	936.1
47.5°	1331.0	1321.7	1360.3	1231.7	1073.9	962.9	941.9	944.2	982.8	1020.2	1062.3
50°	1424.5	1426.9	1444.4	1394.1	1248.1	1082.1	1054.1	1049.4	1104.3	1144.1	1215.3
52.5°	1529.7	1522.7	1548.4	1536.7	1417.5	1228.2	1183.8	1169.8	1229.4	1285.5	1362.6
55°	1580.0	1587.0	1639.5	1668.8	1577.6	1359.1	1310.0	1314.7	1377.8	1437.4	1544.9
57.5°	1668.8	1675.8	1736.5	1797.3	1720.2	1498.1	1454.9	1454.9	1526.2	1592.8	1758.7
60°	1790.3	1791.5	1853.4	1958.6	1845.2	1632.5	1604.5	1603.3	1680.5	1757.6	2011.2
62.5°	1844.1	1858.1	1950.4	2087.1	2008.8	1797.3	1764.6	1773.9	1842.9	1932.9	2292.8
65°	1771.6	1802.0	1994.8	2173.6	2154.9	1969.1	1956.2	1969.1	2011.2	2108.2	2590.8
67.5°	1532.0	1572.9	1913.0	2232.0	2271.8	2167.8	2149.1	2146.7	2173.6	2282.3	2778.9
70°	1408.2	1432.7	1696.8	2254.2	2365.3	2368.8	2368.8	2353.6	2350.1	2429.5	2796.5
72.5°	1159.3	1185.0	1431.5	2130.4	2454.1	2637.5	2664.4	2608.3	2521.8	2505.5	2503.1
75°	826.2	844.9	1057.6	1675.8	2340.7	2895.8	2949.6	2840.9	2600.1	2339.5	1825.4
76°	576.1	603.0	826.2	1431.5	2198.1	2900.5	2984.6	2858.4	2547.6	2197.0	1504.0
77.5°	292.2	301.5	478.0	961.8	1839.4	2767.3	2849.1	2707.7	2318.5	1775.1	954.7
80°	111.0	114.5	170.6	350.6	1009.7	2149.1	2180.6	1990.1	1534.4	758.4	343.6
82.5°	58.4	60.8	95.8	173.0	414.9	1181.5	1333.4	1110.2	601.8	227.9	100.5
85°	29.2	31.6	56.1	105.2	205.7	369.3	427.7	404.3	199.8	86.5	37.4
87.5°	11.7	14.0	28.0	46.7	83.0	72.5	80.6	104.0	64.3	40.9	12.9
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: P595053
 CATALOG NUMBER: IST-PA1B-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
2.5°	517.7	516.5	517.7	516.5	517.7	517.7	518.9	516.5	516.5	518.9	515.4
5°	509.5	508.3	509.5	511.8	513.0	515.4	520.0	518.9	521.2	523.5	524.7
7.5°	506.0	504.8	508.3	509.5	513.0	517.7	524.7	529.4	531.7	536.4	534.1
10°	509.5	509.5	514.2	517.7	523.5	529.4	535.2	539.9	545.7	549.2	548.1
12.5°	515.4	514.2	522.4	527.0	535.2	541.1	545.7	548.1	552.7	557.4	556.3
15°	521.2	522.4	534.1	543.4	552.7	555.1	556.3	553.9	556.3	558.6	558.6
17.5°	532.9	534.1	546.9	557.4	565.6	563.3	557.4	551.6	551.6	552.7	553.9
20°	542.2	544.6	559.8	569.1	573.8	564.4	555.1	548.1	544.6	545.7	544.6
22.5°	552.7	557.4	572.6	577.3	570.3	558.6	546.9	537.6	537.6	538.7	538.7
25°	565.6	567.9	578.5	576.1	563.3	545.7	536.4	532.9	531.7	532.9	534.1
27.5°	577.3	578.5	584.3	567.9	543.4	524.7	521.2	522.4	523.5	524.7	525.9
30°	592.5	594.8	589.0	556.3	518.9	497.8	497.8	504.8	507.2	510.7	509.5
32.5°	611.2	613.5	596.0	541.1	487.3	466.3	467.4	478.0	485.0	487.3	488.5
35°	642.7	638.1	600.7	520.0	453.4	427.7	428.9	441.7	451.1	454.6	452.2
37.5°	681.3	680.1	607.7	493.2	411.3	388.0	389.1	395.0	404.3	405.5	406.7
40°	745.6	736.2	619.4	458.1	369.3	347.1	344.7	348.2	347.1	349.4	350.6
42.5°	837.9	813.3	634.6	418.4	331.9	308.5	306.2	300.3	293.3	286.3	282.8
45°	946.6	908.0	653.2	377.5	293.3	272.3	266.4	259.4	245.4	230.2	225.5
47.5°	1086.8	1013.2	674.3	336.6	257.1	240.7	236.1	225.5	209.2	191.7	188.1
50°	1230.5	1137.1	695.3	302.7	227.9	218.5	213.9	203.3	182.3	165.9	162.4
52.5°	1397.6	1259.8	717.5	272.3	202.2	202.2	198.7	182.3	162.4	147.2	144.9
55°	1590.5	1386.0	752.6	243.1	183.5	188.1	183.5	167.1	148.4	137.9	136.7
57.5°	1820.7	1546.1	797.0	211.5	167.1	170.6	170.6	158.9	146.1	139.1	137.9
60°	2052.1	1708.5	825.0	188.1	154.3	157.8	164.8	158.9	150.7	147.2	146.1
62.5°	2274.1	1874.4	777.1	168.3	141.4	151.9	169.4	170.6	162.4	163.6	163.6
65°	2440.0	2000.6	628.7	150.7	133.2	155.4	183.5	184.6	170.6	167.1	165.9
67.5°	2497.3	2035.7	423.0	139.1	128.5	157.8	199.8	195.2	170.6	163.6	160.1
70°	2388.6	1907.2	274.6	128.5	121.5	155.4	212.7	201.0	169.4	158.9	154.3
72.5°	2003.0	1626.7	183.5	119.2	114.5	153.1	220.9	201.0	165.9	150.7	146.1
75°	1390.6	1111.3	136.7	107.5	104.0	149.6	223.2	197.5	157.8	141.4	137.9
76°	1116.0	833.2	123.9	102.8	99.3	147.2	222.0	194.0	151.9	136.7	133.2
77.5°	704.7	479.1	104.0	94.7	92.3	142.6	217.4	185.8	143.7	128.5	125.0
80°	246.6	175.3	79.5	77.1	78.3	132.1	204.5	169.4	127.4	113.4	108.7
82.5°	98.2	80.6	59.6	59.6	61.9	113.4	184.6	149.6	111.0	93.5	86.5
85°	38.6	35.1	42.1	42.1	44.4	92.3	154.3	116.9	76.0	58.4	56.1
87.5°	11.7	16.4	18.7	19.9	21.0	46.7	87.6	51.4	33.9	24.5	19.9
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)