

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: P594966

Luminaire Tested: **IST-PA1A-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1A-740-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4154 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

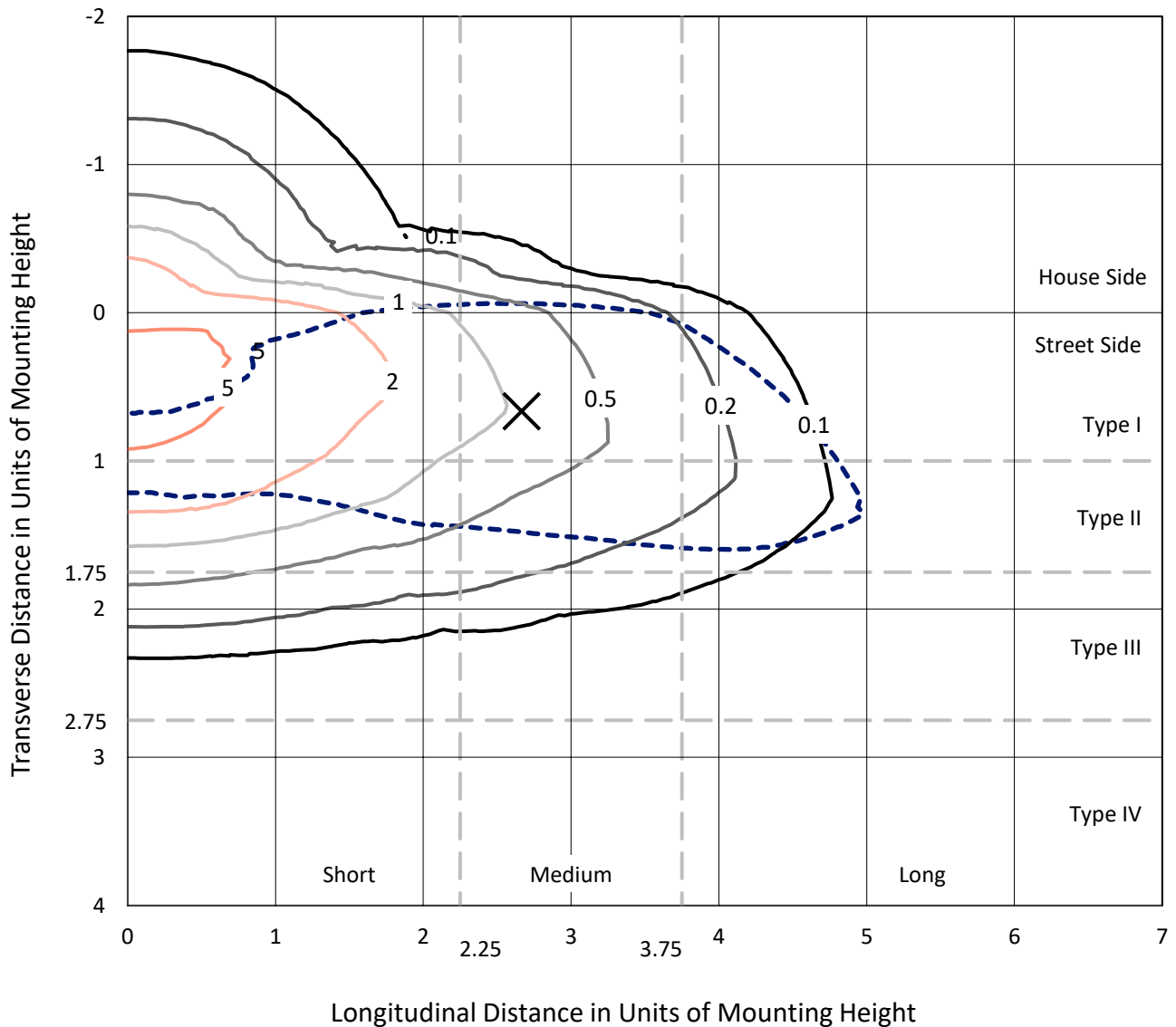
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

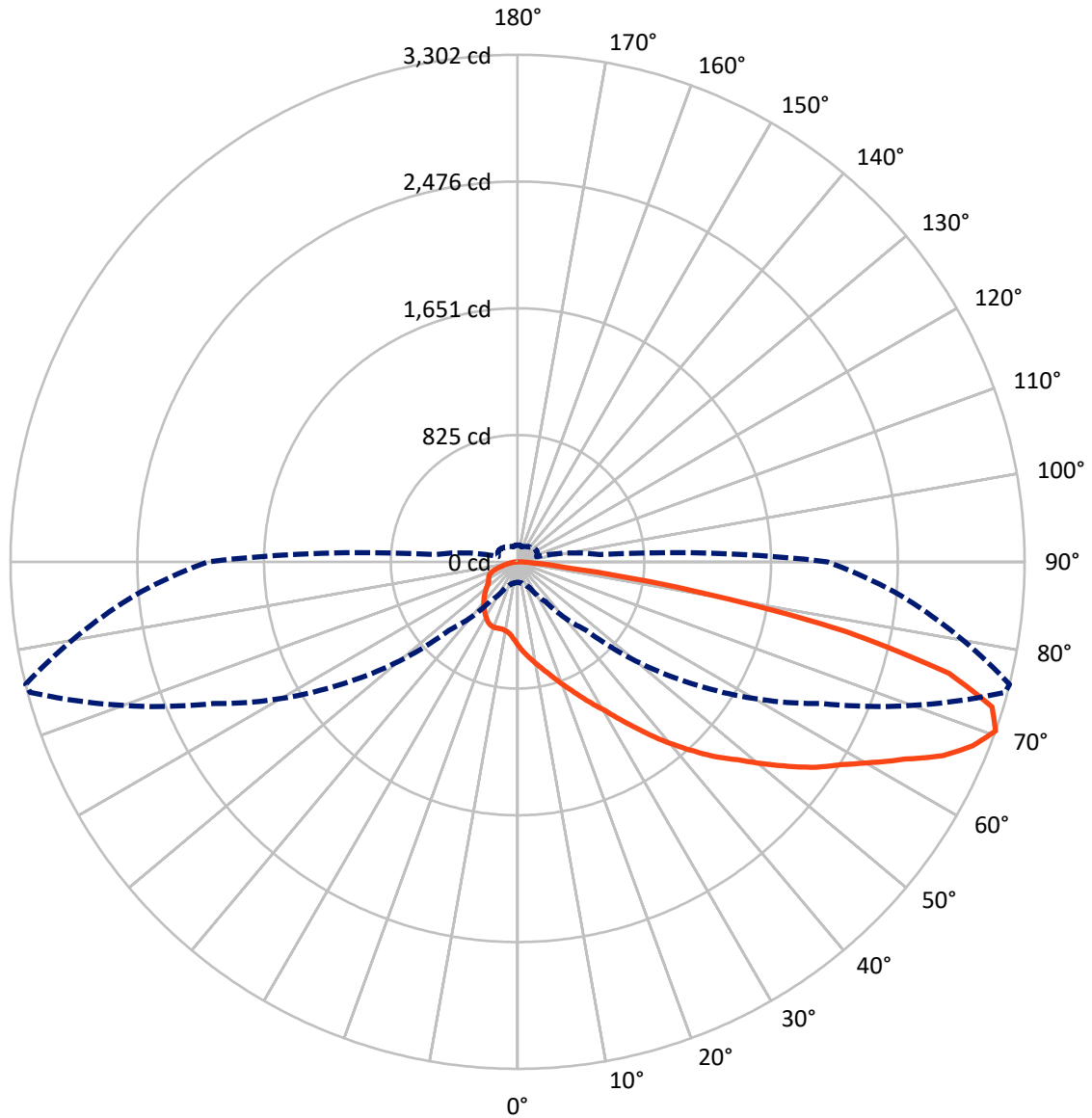
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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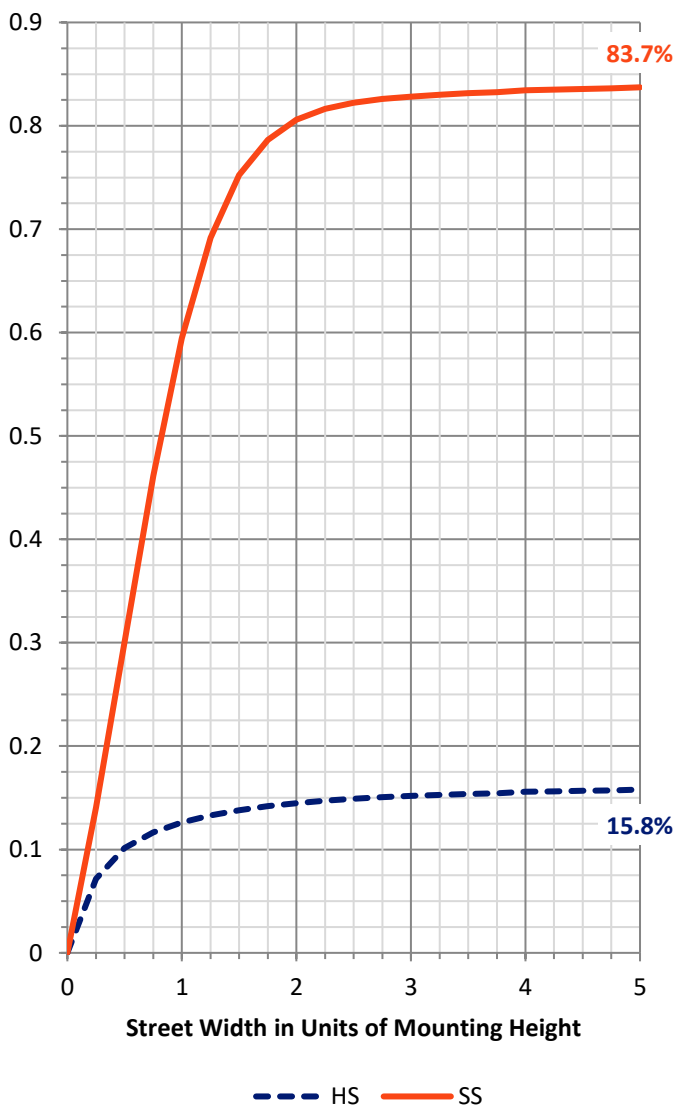
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.3	0.0	666.3
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3487.7	0.0	3487.7
	% Fixture	84.0	0.0	84.0
Total	Lumens	4154.0	0.0	4154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.3
10°-20°	175.3	4.2
20°-30°	323.0	7.8
30°-40°	541.2	13.0
40°-50°	768.9	18.5
50°-60°	887.8	21.4
60°-70°	816.1	19.6
70°-80°	514.6	12.4
80°-90°	74.0	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°	4154.0	100.0
0°-180°	4154.0	100.0

Coefficient of Utilization

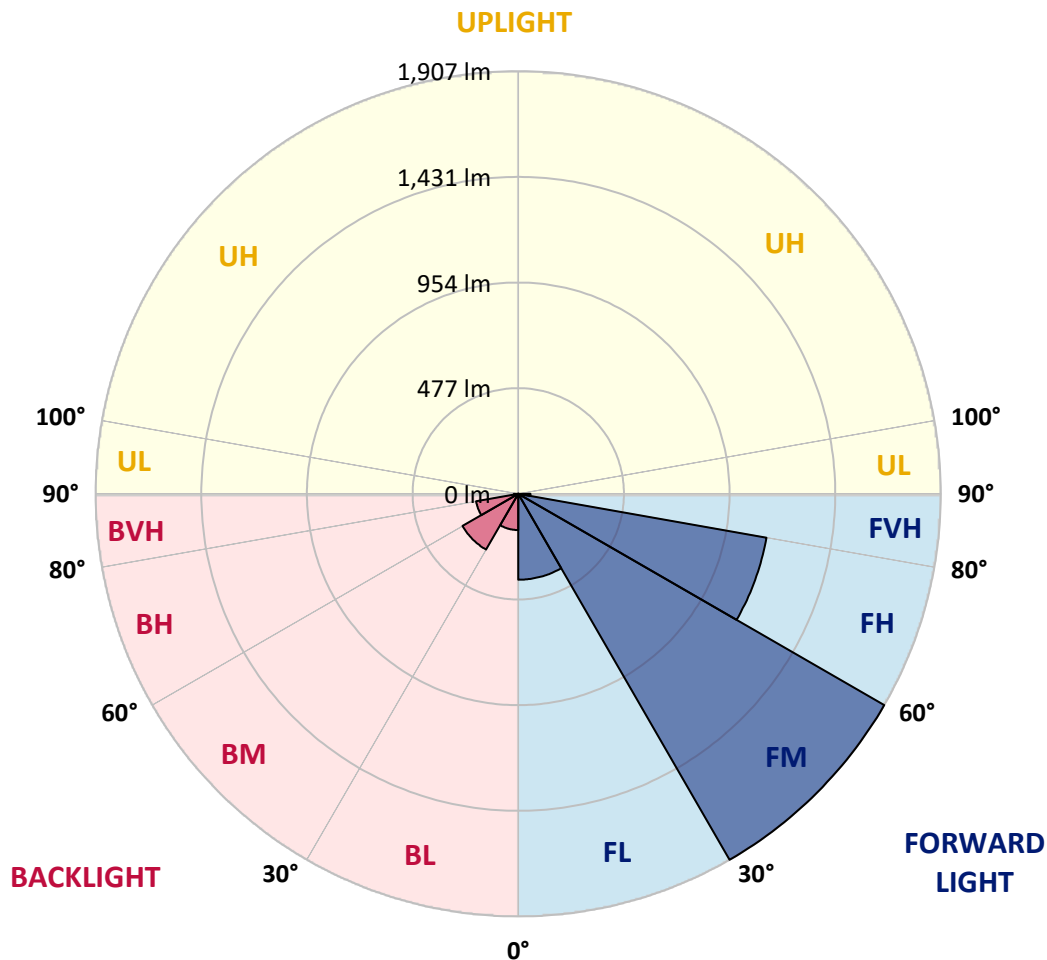


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.8	9.3			
FM (30°-60°)	1907.4	45.9			
FH (60°-80°)	1137.6	27.4			G1/1800
FVH (80°-90°)	54.9	1.3			G1/100
BL (0°-30°)	163.6	3.9	B1/500		
BM (30°-60°)	290.5	7.0	B1/1000		
BH (60°-80°)	193.1	4.6	B1/500		G1/500
BVH (80°-90°)	19.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9
2.5°	655.9	654.9	651.9	646.9	642.9	630.9	614.9	600.9	579.9	577.9	556.9
5°	714.9	710.9	710.9	705.9	700.9	687.9	667.9	642.9	612.9	610.9	570.9
7.5°	742.9	743.9	741.9	737.9	738.9	727.9	709.9	684.9	643.9	641.9	589.9
10°	782.9	781.9	777.9	774.9	773.9	763.9	747.9	724.9	681.9	677.9	611.9
12.5°	821.9	818.9	819.9	818.9	816.9	806.9	791.9	768.9	715.9	713.9	638.9
15°	843.9	842.9	849.9	851.9	859.9	850.9	837.9	811.9	763.9	755.9	670.9
17.5°	857.9	856.9	863.9	879.9	894.9	894.9	890.9	862.9	809.9	803.9	706.9
20°	881.9	885.9	897.9	910.9	932.9	936.9	935.9	923.9	862.9	856.9	746.9
22.5°	929.9	927.9	937.9	957.9	977.9	983.9	984.9	984.9	923.9	912.9	787.9
25°	1032.9	1027.9	1019.9	1017.9	1041.9	1040.9	1037.9	1044.9	987.9	979.9	834.9
27.5°	1228.9	1217.9	1186.9	1124.9	1110.9	1115.9	1100.9	1101.9	1060.9	1050.9	874.9
30°	1414.9	1409.9	1380.9	1305.9	1226.9	1198.9	1172.9	1161.9	1141.9	1124.9	917.9
32.5°	1582.8	1583.8	1548.8	1466.8	1385.9	1297.9	1252.9	1229.9	1237.9	1222.9	976.9
35°	1696.8	1687.8	1665.8	1610.8	1522.8	1438.8	1352.9	1301.9	1344.9	1327.9	1035.9
37.5°	1763.8	1756.8	1738.8	1699.8	1655.8	1574.8	1465.8	1387.9	1471.8	1446.8	1110.9
40°	1797.8	1787.8	1769.8	1753.8	1732.8	1688.8	1592.8	1485.8	1587.8	1565.8	1184.9
42.5°	1801.8	1794.8	1784.8	1776.8	1783.8	1777.8	1716.8	1599.8	1709.8	1685.8	1269.9
45°	1798.8	1803.8	1791.8	1777.8	1791.8	1842.8	1842.8	1713.8	1830.8	1812.8	1350.9
47.5°	1800.8	1795.8	1791.8	1787.8	1789.8	1859.8	1929.8	1820.8	1946.8	1925.8	1445.8
50°	1717.8	1724.8	1758.8	1773.8	1782.8	1863.8	1999.8	1936.8	2090.8	2064.8	1551.8
52.5°	1453.8	1457.8	1612.8	1724.8	1760.8	1847.8	2048.8	2065.8	2232.8	2212.8	1665.8
55°	1119.9	1140.9	1287.9	1561.8	1710.8	1820.8	2063.8	2149.8	2377.8	2361.8	1780.8
57.5°	921.9	924.9	1009.9	1254.9	1552.8	1795.8	2078.8	2226.8	2507.7	2489.7	1900.8
60°	764.9	757.9	809.9	967.9	1289.9	1695.8	2081.8	2287.8	2658.7	2652.7	2024.8
62.5°	561.9	569.9	619.9	753.9	1008.9	1492.8	2066.8	2339.8	2838.7	2830.7	2162.8
65°	345.0	355.0	416.0	538.9	763.9	1184.9	1968.8	2366.8	3027.7	3045.7	2311.8
67.5°	183.0	190.0	226.0	326.0	523.9	902.9	1732.8	2332.8	3187.7	3195.7	2454.7
70°	134.0	135.0	147.0	184.0	316.0	627.9	1379.9	2184.8	3285.7	3301.7	2501.7
72.5°	117.0	118.0	123.0	132.0	172.0	383.0	988.9	1926.8	3244.7	3230.7	2422.7
75°	106.0	106.0	110.0	113.0	126.0	212.0	605.9	1576.8	2931.7	2900.7	2065.8
77.5°	91.0	91.0	95.0	99.0	109.0	137.0	317.0	1168.9	2241.8	2188.8	1412.9
80°	73.0	73.0	78.0	83.0	96.0	103.0	155.0	781.9	1281.9	1203.9	642.9
82.5°	50.0	54.0	63.0	69.0	80.0	73.0	91.0	338.0	404.0	350.0	145.0
85°	30.0	32.0	45.0	52.0	60.0	39.0	56.0	130.0	121.0	106.0	33.0
87.5°	3.0	5.0	18.0	21.0	21.0	11.0	24.0	31.0	35.0	36.0	8.0
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°	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9
2.5°	544.9	532.9	509.9	488.9	468.0	454.0	440.0	435.0	428.0	423.0	427.0
5°	549.9	524.9	480.9	444.0	419.0	400.0	391.0	386.0	382.0	381.0	380.0
7.5°	555.9	518.9	460.0	419.0	395.0	386.0	384.0	384.0	384.0	385.0	386.0
10°	568.9	520.9	449.0	405.0	392.0	390.0	391.0	395.0	395.0	396.0	396.0
12.5°	583.9	525.9	441.0	403.0	395.0	396.0	397.0	399.0	399.0	402.0	401.0
15°	605.9	535.9	440.0	405.0	398.0	396.0	396.0	395.0	395.0	395.0	397.0
17.5°	633.9	549.9	441.0	405.0	395.0	391.0	388.0	385.0	381.0	383.0	381.0
20°	661.9	566.9	441.0	400.0	387.0	377.0	368.0	363.0	358.0	357.0	358.0
22.5°	696.9	586.9	436.0	389.0	370.0	356.0	343.0	336.0	328.0	325.0	323.0
25°	726.9	602.9	426.0	373.0	351.0	331.0	314.0	302.0	292.0	290.0	290.0
27.5°	757.9	616.9	411.0	353.0	324.0	302.0	283.0	268.0	258.0	257.0	256.0
30°	786.9	628.9	391.0	331.0	300.0	274.0	252.0	239.0	230.0	225.0	222.0
32.5°	824.9	644.9	372.0	309.0	272.0	246.0	226.0	215.0	203.0	195.0	192.0
35°	872.9	663.9	351.0	285.0	247.0	221.0	209.0	193.0	178.0	169.0	166.0
37.5°	926.9	690.9	329.0	260.0	222.0	203.0	196.0	171.0	155.0	152.0	151.0
40°	993.9	716.9	304.0	234.0	198.0	193.0	181.0	155.0	147.0	146.0	145.0
42.5°	1060.9	744.9	280.0	208.0	179.0	181.0	164.0	151.0	144.0	142.0	141.0
45°	1138.9	772.9	256.0	185.0	164.0	164.0	155.0	147.0	141.0	139.0	139.0
47.5°	1220.9	800.9	230.0	165.0	153.0	147.0	148.0	142.0	138.0	136.0	135.0
50°	1323.9	827.9	206.0	151.0	146.0	138.0	141.0	137.0	135.0	133.0	132.0
52.5°	1420.9	839.9	184.0	143.0	142.0	134.0	135.0	133.0	132.0	129.0	128.0
55°	1515.8	836.9	167.0	139.0	137.0	133.0	131.0	130.0	129.0	126.0	125.0
57.5°	1621.8	832.9	156.0	138.0	134.0	130.0	130.0	127.0	123.0	123.0	123.0
60°	1731.8	819.9	151.0	138.0	133.0	130.0	128.0	125.0	121.0	122.0	121.0
62.5°	1855.8	794.9	148.0	141.0	134.0	129.0	127.0	123.0	118.0	119.0	118.0
65°	1964.8	743.9	146.0	144.0	136.0	130.0	125.0	120.0	114.0	115.0	114.0
67.5°	2038.8	657.9	140.0	146.0	139.0	129.0	123.0	116.0	108.0	112.0	111.0
70°	2017.8	534.9	129.0	142.0	142.0	130.0	120.0	111.0	102.0	110.0	107.0
72.5°	1854.8	402.0	108.0	128.0	140.0	130.0	114.0	103.0	95.0	100.0	94.0
75°	1522.8	273.0	86.0	102.0	131.0	131.0	109.0	95.0	85.0	82.0	80.0
77.5°	949.9	170.0	67.0	75.0	110.0	130.0	104.0	85.0	71.0	69.0	67.0
80°	376.0	91.0	53.0	54.0	81.0	119.0	97.0	72.0	57.0	55.0	51.0
82.5°	86.0	46.0	37.0	36.0	50.0	97.0	88.0	57.0	44.0	44.0	37.0
85°	26.0	24.0	24.0	23.0	25.0	50.0	68.0	39.0	30.0	21.0	18.0
87.5°	7.0	10.0	9.0	8.0	8.0	7.0	22.0	10.0	6.0	3.0	2.0
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)