

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: P594972

Luminaire Tested: **IST-PA1A-740-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594972
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-PA1A-740-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4082.9 lumens
Efficiency: N/A
Efficacy: 141.8 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

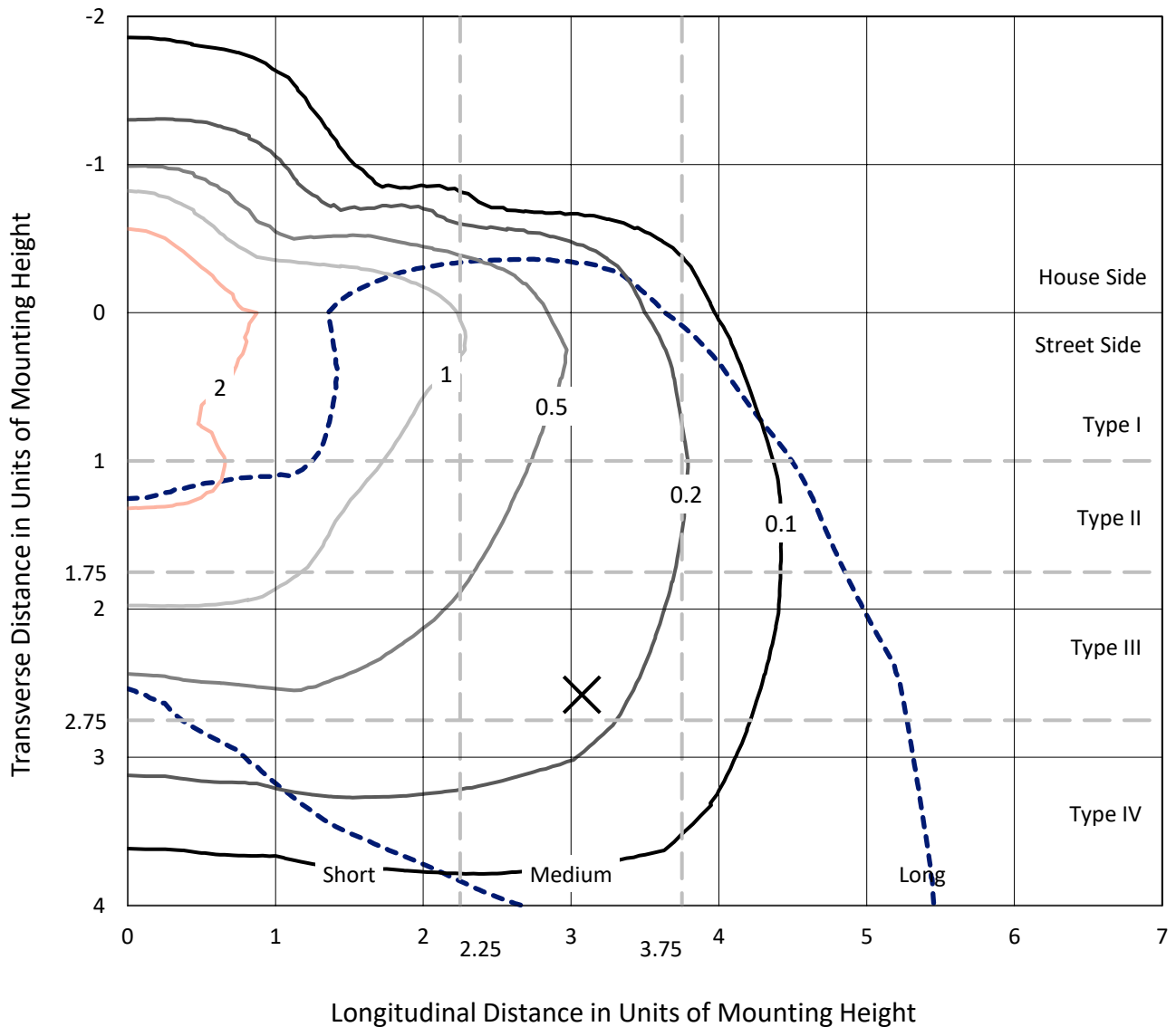
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594972
 CATALOG NUMBER: IST-PA1A-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

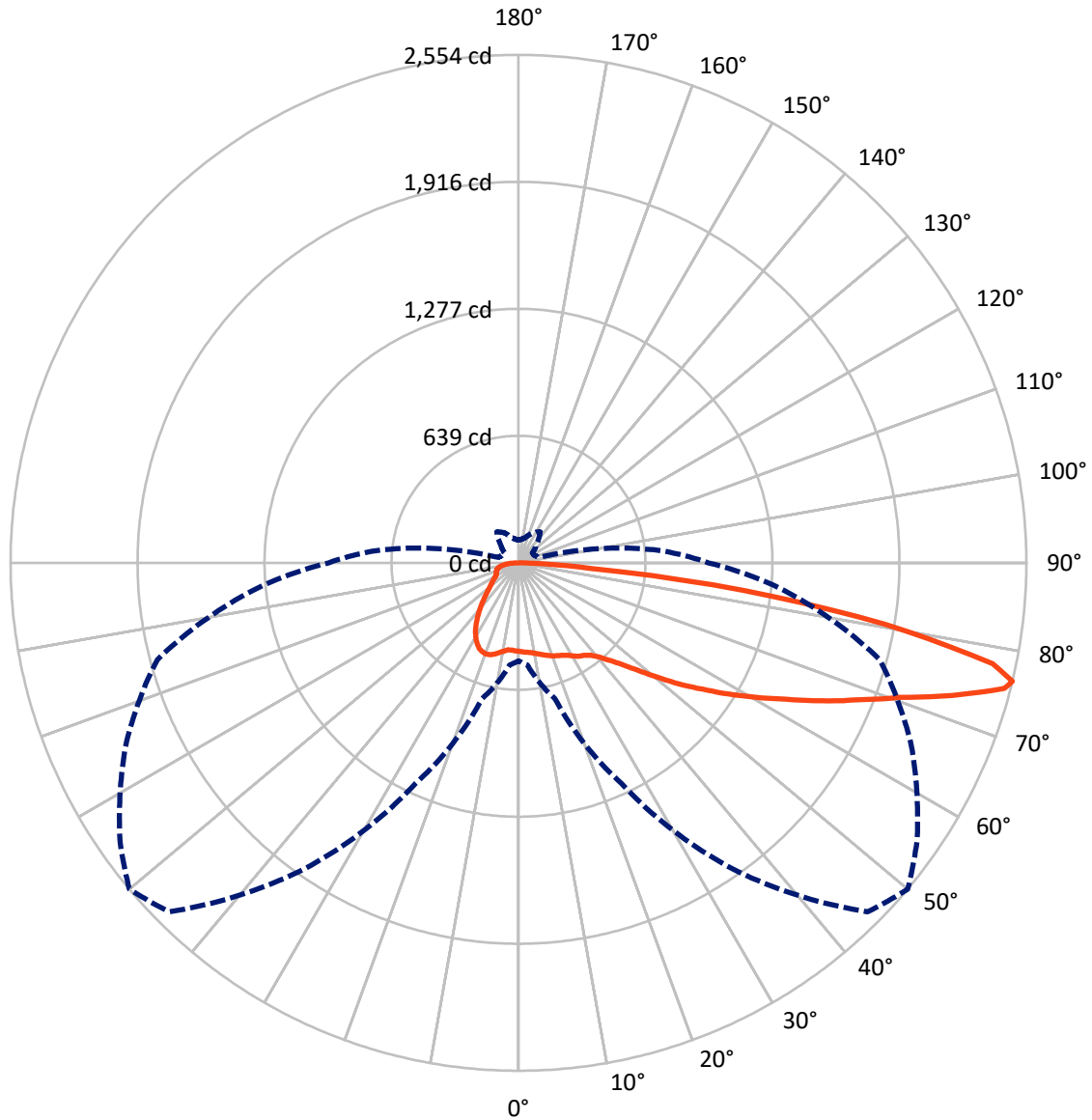
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594972
CATALOG NUMBER: IST-PA1A-740-U-T4W

Luminous Intensity Polar Plot



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



REPORT NUMBER: P594972
 CATALOG NUMBER: IST-PA1A-740-U-T4W

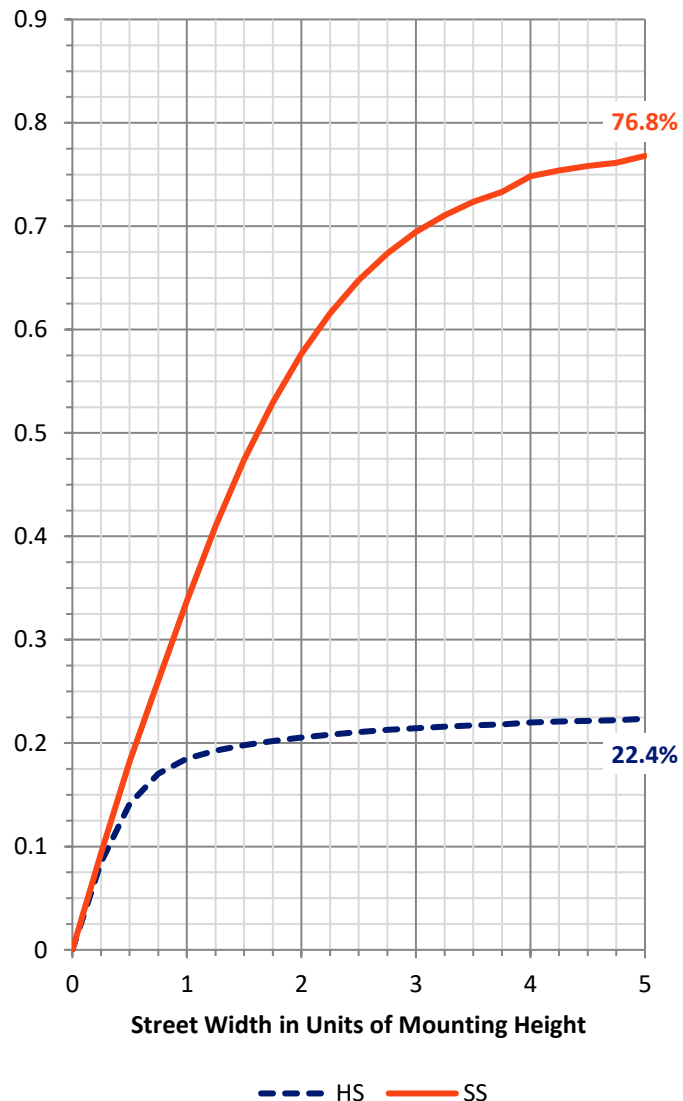
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.0	0.0	934.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3149.0	0.0	3149.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	4082.9	0.0	4082.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.1
10°-20°	135.9	3.3
20°-30°	229.5	5.6
30°-40°	314.6	7.7
40°-50°	463.3	11.3
50°-60°	728.8	17.9
60°-70°	1049.1	25.7
70°-80°	953.9	23.4
80°-90°	164.7	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°	4082.9	100.0
0°-180°	4082.9	100.0

Coefficient of Utilization

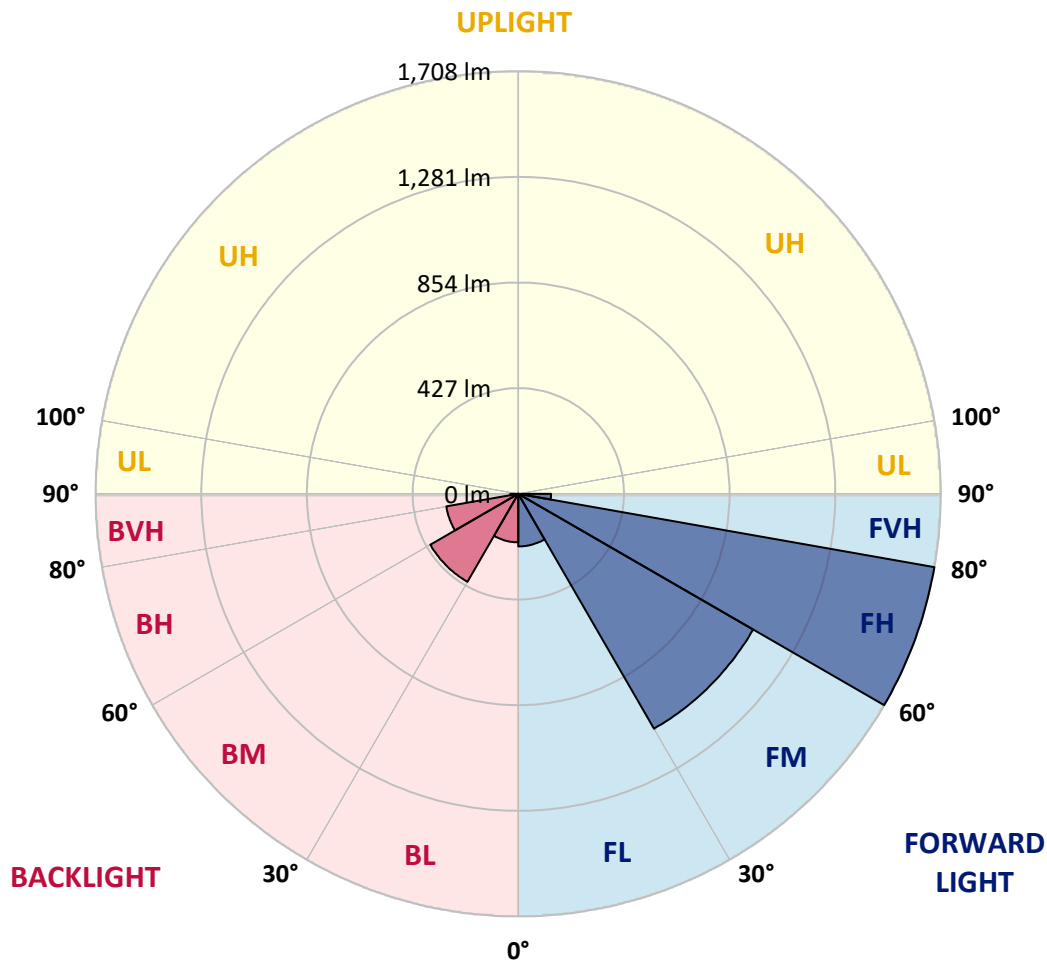


REPORT NUMBER: P594972
 CATALOG NUMBER: IST-PA1A-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.5	5.2			
FM (30°-60°)	1096.2	26.8			
FH (60°-80°)	1707.7	41.8			G1/1800
FVH (80°-90°)	132.6	3.2			G2/225
BL (0°-30°)	196.1	4.8	B1/500		
BM (30°-60°)	410.5	10.1	B1/1000		
BH (60°-80°)	295.3	7.2	B1/500		G1/500
BVH (80°-90°)	32.1	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: P594972
 CATALOG NUMBER: IST-PA1A-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0
2.5°	455.0	455.0	456.0	454.0	454.0	449.0	449.0	448.0	446.0	445.0	443.0
5°	472.0	472.0	469.0	464.0	461.0	455.0	452.0	450.0	446.0	441.0	436.0
7.5°	490.0	488.0	486.0	478.0	472.0	461.0	456.0	453.0	445.0	438.0	435.0
10°	509.0	506.0	501.0	491.0	482.0	469.0	463.0	459.0	450.0	444.0	437.0
12.5°	520.0	520.0	514.0	502.0	490.0	474.0	471.0	466.0	457.0	449.0	442.0
15°	531.0	532.0	526.0	512.0	498.0	486.0	481.0	478.0	468.0	456.0	447.0
17.5°	542.0	541.0	535.0	519.0	504.0	493.0	490.0	486.0	476.0	465.0	456.0
20°	550.0	548.0	546.0	526.0	511.0	504.0	500.0	497.0	487.0	475.0	463.0
22.5°	552.0	554.0	552.0	528.0	516.0	508.0	507.0	504.0	496.0	485.0	473.0
25°	553.0	554.0	557.0	534.0	523.0	517.0	515.0	513.0	507.0	498.0	482.0
27.5°	558.0	559.0	559.0	538.0	532.0	528.0	526.0	526.0	523.0	512.0	496.0
30°	559.0	560.0	562.0	548.0	546.0	543.0	544.0	543.0	538.0	526.0	508.0
32.5°	566.0	567.0	572.0	554.0	556.0	559.0	560.0	559.0	549.0	539.0	524.0
35°	589.0	588.0	592.1	569.0	567.0	568.0	571.0	570.0	566.0	557.0	547.0
37.5°	663.1	663.1	652.1	604.1	589.0	587.0	589.0	594.1	595.1	587.0	579.0
40°	793.1	786.1	780.1	676.1	628.1	616.1	622.1	625.1	633.1	633.1	633.1
42.5°	927.1	928.1	926.1	788.1	698.1	668.1	669.1	676.1	693.1	696.1	705.1
45°	1046.1	1053.1	1068.1	918.1	801.1	734.1	727.1	734.1	758.1	778.1	801.1
47.5°	1139.1	1131.1	1164.1	1054.1	919.1	824.1	806.1	808.1	841.1	873.1	909.1
50°	1219.1	1221.1	1236.1	1193.1	1068.1	926.1	902.1	898.1	945.1	979.1	1040.1
52.5°	1309.1	1303.1	1325.1	1315.1	1213.1	1051.1	1013.1	1001.1	1052.1	1100.1	1166.1
55°	1352.1	1358.1	1403.1	1428.1	1350.1	1163.1	1121.1	1125.1	1179.1	1230.1	1322.1
57.5°	1428.1	1434.1	1486.1	1538.1	1472.1	1282.1	1245.1	1245.1	1306.1	1363.1	1505.1
60°	1532.1	1533.1	1586.1	1676.1	1579.1	1397.1	1373.1	1372.1	1438.1	1504.1	1721.1
62.5°	1578.1	1590.1	1669.1	1786.2	1719.1	1538.1	1510.1	1518.1	1577.1	1654.1	1962.2
65°	1516.1	1542.1	1707.1	1860.2	1844.2	1685.1	1674.1	1685.1	1721.1	1804.2	2217.2
67.5°	1311.1	1346.1	1637.1	1910.2	1944.2	1855.2	1839.2	1837.2	1860.2	1953.2	2378.2
70°	1205.1	1226.1	1452.1	1929.2	2024.2	2027.2	2027.2	2014.2	2011.2	2079.2	2393.2
72.5°	992.1	1014.1	1225.1	1823.2	2100.2	2257.2	2280.2	2232.2	2158.2	2144.2	2142.2
75°	707.1	723.1	905.1	1434.1	2003.2	2478.2	2524.2	2431.2	2225.2	2002.2	1562.1
76°	493.0	516.0	707.1	1225.1	1881.2	2482.2	2554.2	2446.2	2180.2	1880.2	1287.1
77.5°	250.0	258.0	409.0	823.1	1574.1	2368.2	2438.2	2317.2	1984.2	1519.1	817.1
80°	95.0	98.0	146.0	300.0	864.1	1839.2	1866.2	1703.1	1313.1	649.1	294.0
82.5°	50.0	52.0	82.0	148.0	355.0	1011.1	1141.1	950.1	515.0	195.0	86.0
85°	25.0	27.0	48.0	90.0	176.0	316.0	366.0	346.0	171.0	74.0	32.0
87.5°	10.0	12.0	24.0	40.0	71.0	62.0	69.0	89.0	55.0	35.0	11.0
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: P594972
 CATALOG NUMBER: IST-PA1A-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0	445.0
2.5°	443.0	442.0	443.0	442.0	443.0	443.0	444.0	442.0	442.0	444.0	441.0
5°	436.0	435.0	436.0	438.0	439.0	441.0	445.0	444.0	446.0	448.0	449.0
7.5°	433.0	432.0	435.0	436.0	439.0	443.0	449.0	453.0	455.0	459.0	457.0
10°	436.0	436.0	440.0	443.0	448.0	453.0	458.0	462.0	467.0	470.0	469.0
12.5°	441.0	440.0	447.0	451.0	458.0	463.0	467.0	469.0	473.0	477.0	476.0
15°	446.0	447.0	457.0	465.0	473.0	475.0	476.0	474.0	476.0	478.0	478.0
17.5°	456.0	457.0	468.0	477.0	484.0	482.0	477.0	472.0	472.0	473.0	474.0
20°	464.0	466.0	479.0	487.0	491.0	483.0	475.0	469.0	466.0	467.0	466.0
22.5°	473.0	477.0	490.0	494.0	488.0	478.0	468.0	460.0	460.0	461.0	461.0
25°	484.0	486.0	495.0	493.0	482.0	467.0	459.0	456.0	455.0	456.0	457.0
27.5°	494.0	495.0	500.0	486.0	465.0	449.0	446.0	447.0	448.0	449.0	450.0
30°	507.0	509.0	504.0	476.0	444.0	426.0	426.0	432.0	434.0	437.0	436.0
32.5°	523.0	525.0	510.0	463.0	417.0	399.0	400.0	409.0	415.0	417.0	418.0
35°	550.0	546.0	514.0	445.0	388.0	366.0	367.0	378.0	386.0	389.0	387.0
37.5°	583.0	582.0	520.0	422.0	352.0	332.0	333.0	338.0	346.0	347.0	348.0
40°	638.1	630.1	530.0	392.0	316.0	297.0	295.0	298.0	297.0	299.0	300.0
42.5°	717.1	696.1	543.0	358.0	284.0	264.0	262.0	257.0	251.0	245.0	242.0
45°	810.1	777.1	559.0	323.0	251.0	233.0	228.0	222.0	210.0	197.0	193.0
47.5°	930.1	867.1	577.0	288.0	220.0	206.0	202.0	193.0	179.0	164.0	161.0
50°	1053.1	973.1	595.1	259.0	195.0	187.0	183.0	174.0	156.0	142.0	139.0
52.5°	1196.1	1078.1	614.1	233.0	173.0	173.0	170.0	156.0	139.0	126.0	124.0
55°	1361.1	1186.1	644.1	208.0	157.0	161.0	157.0	143.0	127.0	118.0	117.0
57.5°	1558.1	1323.1	682.1	181.0	143.0	146.0	146.0	136.0	125.0	119.0	118.0
60°	1756.1	1462.1	706.1	161.0	132.0	135.0	141.0	136.0	129.0	126.0	125.0
62.5°	1946.2	1604.1	665.1	144.0	121.0	130.0	145.0	146.0	139.0	140.0	140.0
65°	2088.2	1712.1	538.0	129.0	114.0	133.0	157.0	158.0	146.0	143.0	142.0
67.5°	2137.2	1742.1	362.0	119.0	110.0	135.0	171.0	167.0	146.0	140.0	137.0
70°	2044.2	1632.1	235.0	110.0	104.0	133.0	182.0	172.0	145.0	136.0	132.0
72.5°	1714.1	1392.1	157.0	102.0	98.0	131.0	189.0	172.0	142.0	129.0	125.0
75°	1190.1	951.1	117.0	92.0	89.0	128.0	191.0	169.0	135.0	121.0	118.0
76°	955.1	713.1	106.0	88.0	85.0	126.0	190.0	166.0	130.0	117.0	114.0
77.5°	603.1	410.0	89.0	81.0	79.0	122.0	186.0	159.0	123.0	110.0	107.0
80°	211.0	150.0	68.0	66.0	67.0	113.0	175.0	145.0	109.0	97.0	93.0
82.5°	84.0	69.0	51.0	51.0	53.0	97.0	158.0	128.0	95.0	80.0	74.0
85°	33.0	30.0	36.0	36.0	38.0	79.0	132.0	100.0	65.0	50.0	48.0
87.5°	10.0	14.0	16.0	17.0	18.0	40.0	75.0	44.0	29.0	21.0	17.0
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)