

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: P594957

Luminaire Tested: **IST-PA1A-735-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594957
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-735-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 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: 3870 lumens
Efficiency: N/A
Efficacy: 134.4 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

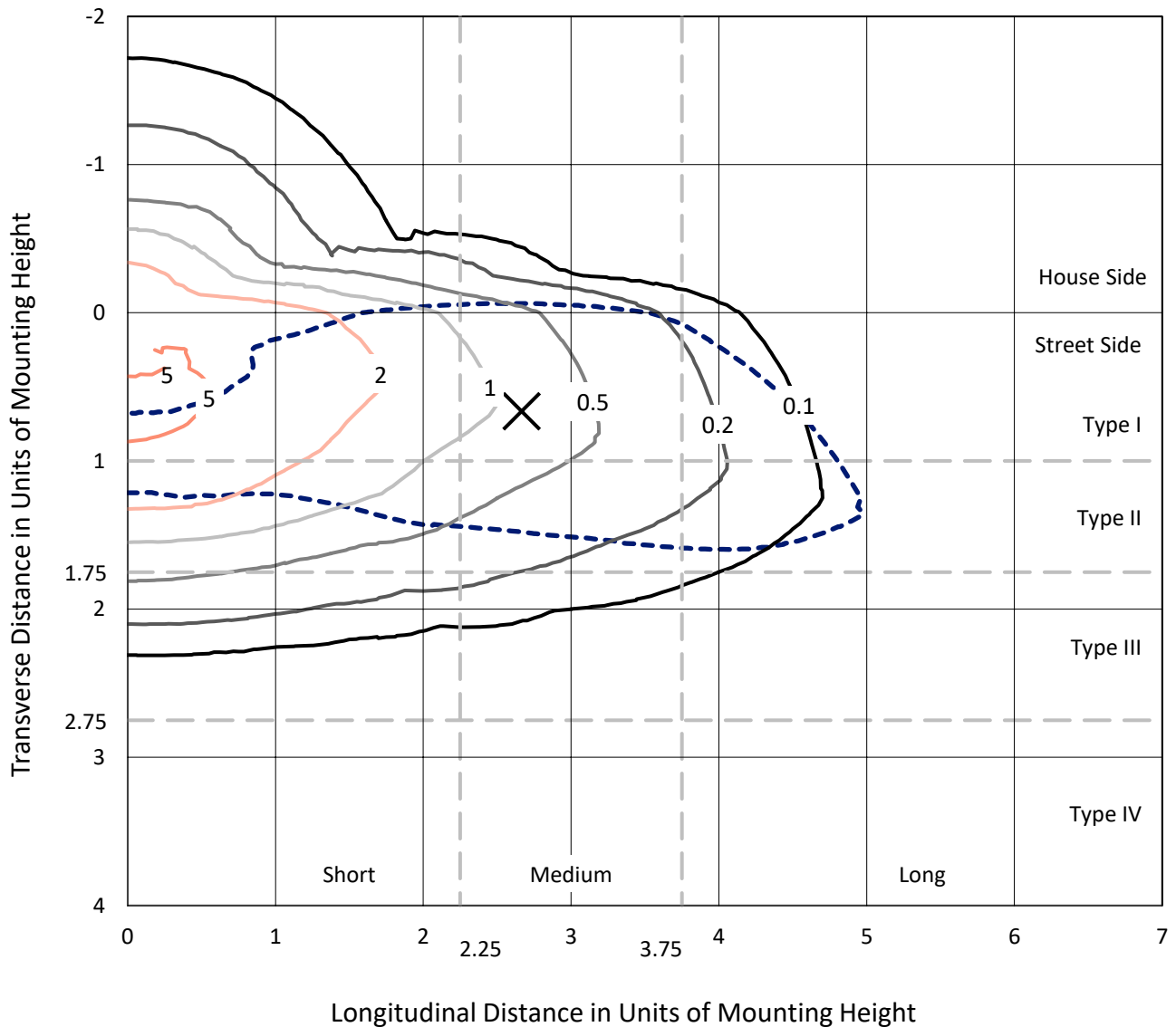
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

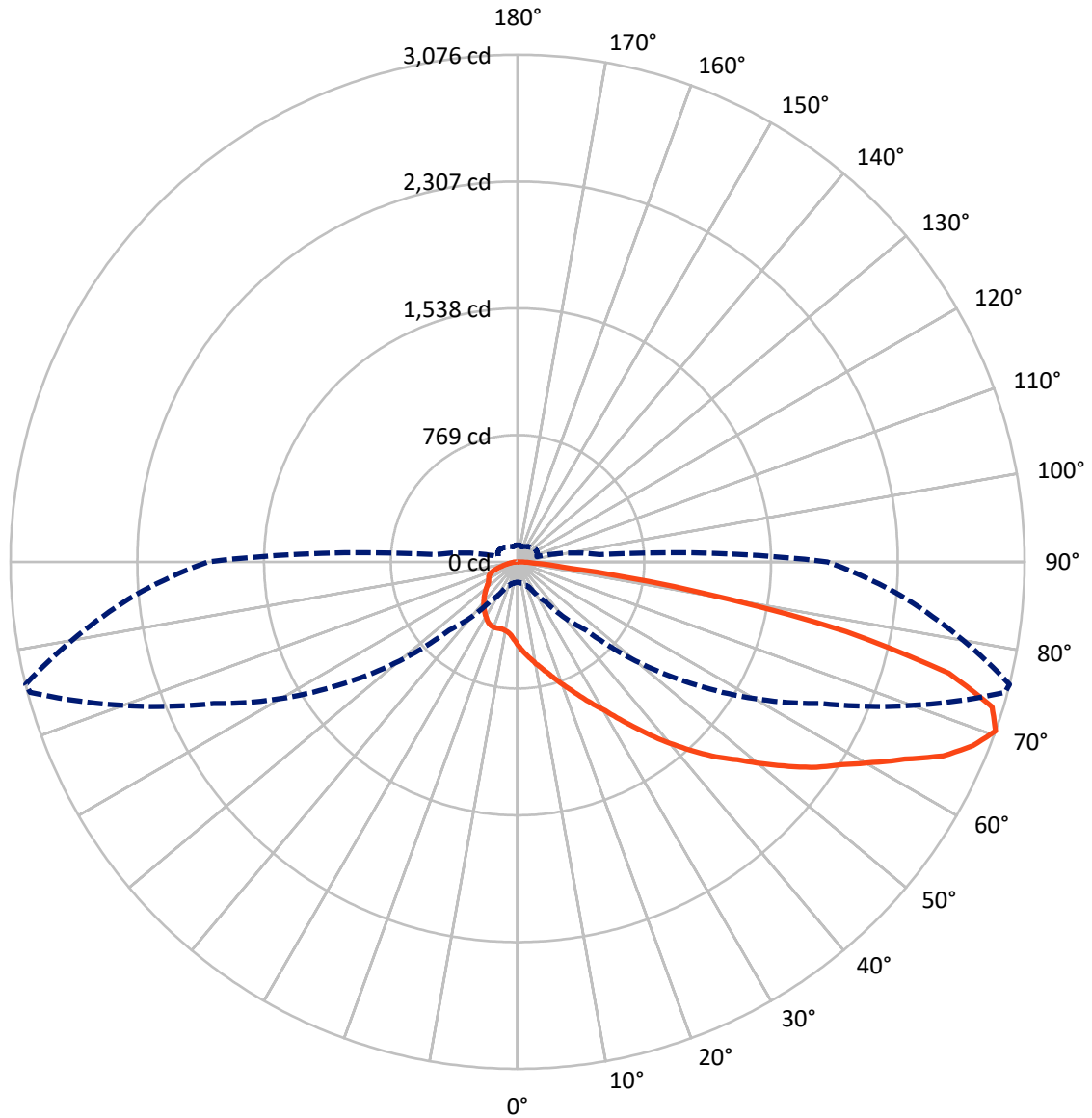
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 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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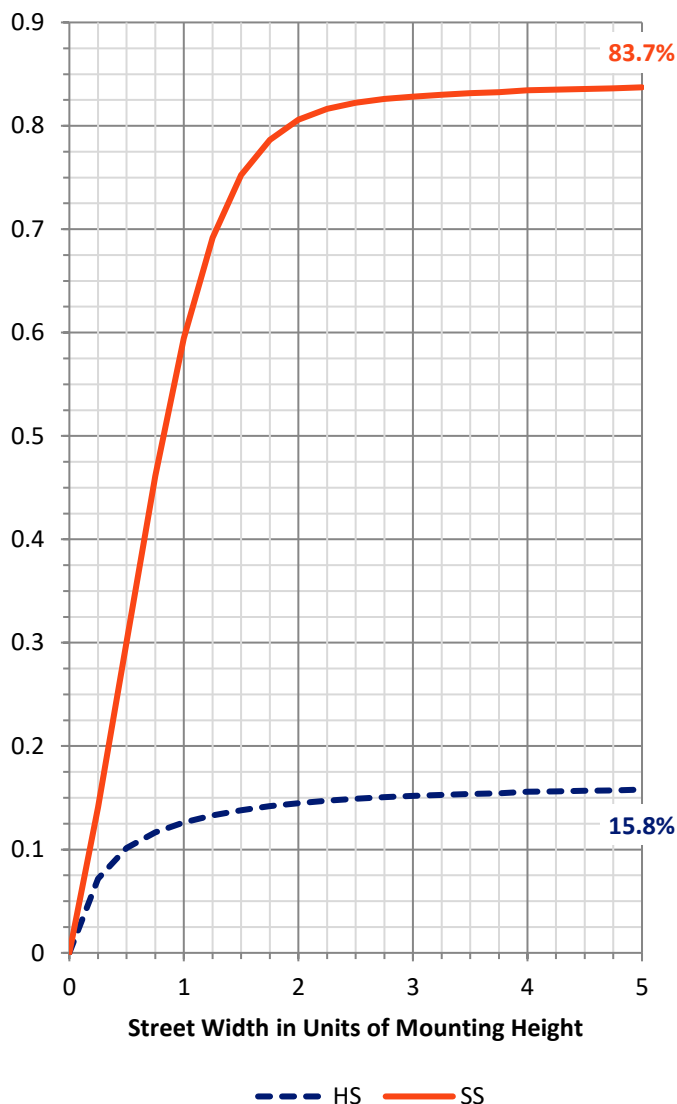
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.7	0.0	620.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3249.3	0.0	3249.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	3870.0	0.0	3870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	1.3
10°-20°	163.3	4.2
20°-30°	300.9	7.8
30°-40°	504.2	13.0
40°-50°	716.4	18.5
50°-60°	827.1	21.4
60°-70°	760.3	19.6
70°-80°	479.4	12.4
80°-90°	69.0	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°	3870.0	100.0
0°-180°	3870.0	100.0

Coefficient of Utilization

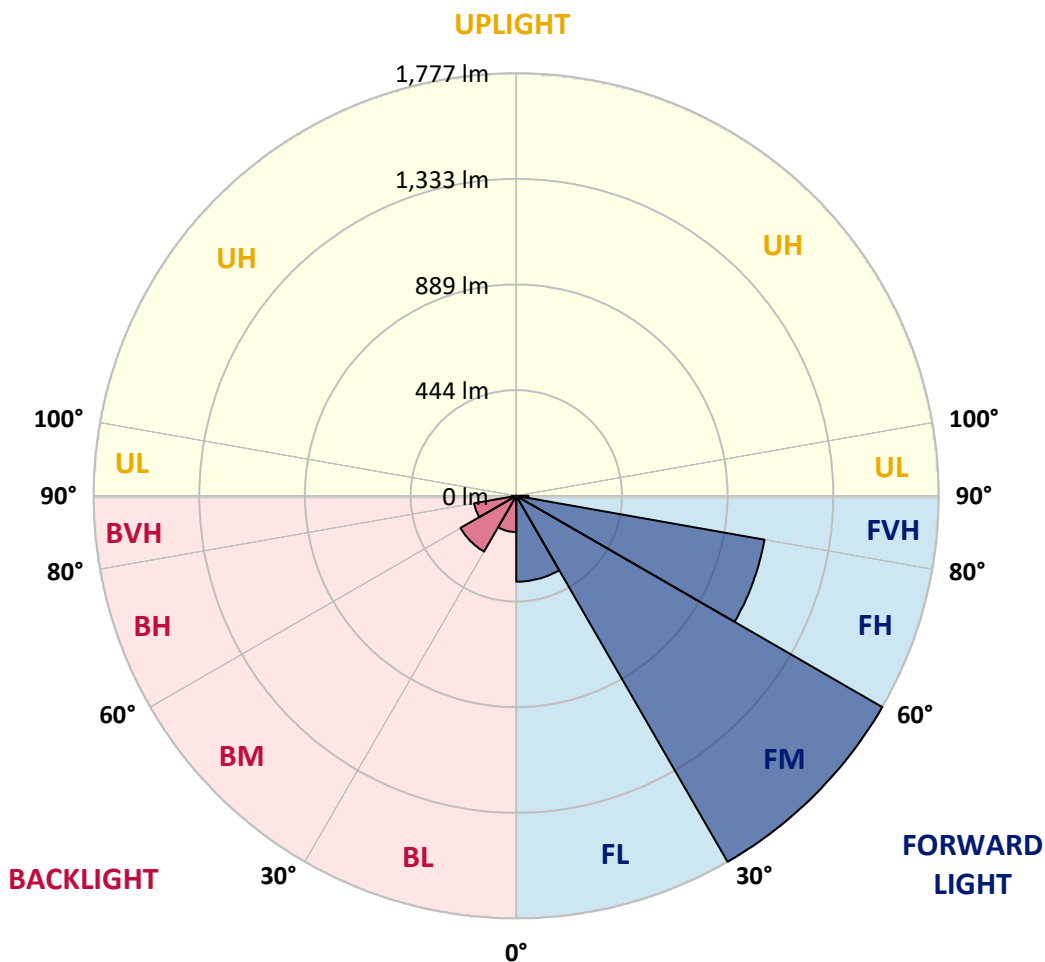


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.3	9.3			
FM (30°-60°)	1777.0	45.9			
FH (60°-80°)	1059.8	27.4			G1/1800
FVH (80°-90°)	51.1	1.3			G1/100
BL (0°-30°)	152.4	3.9	B1/500		
BM (30°-60°)	270.6	7.0	B1/1000		
BH (60°-80°)	179.9	4.6	B1/500		G1/500
BVH (80°-90°)	17.8	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°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
2.5°	611.1	610.2	607.4	602.7	599.0	587.8	572.9	559.9	540.3	538.4	518.9
5°	666.0	662.3	662.3	657.7	653.0	640.9	622.3	599.0	571.0	569.2	531.9
7.5°	692.1	693.1	691.2	687.5	688.4	678.2	661.4	638.1	599.9	598.0	549.6
10°	729.4	728.5	724.7	721.9	721.0	711.7	696.8	675.4	635.3	631.6	570.1
12.5°	765.7	762.9	763.9	762.9	761.1	751.7	737.8	716.3	667.0	665.1	595.3
15°	786.2	785.3	791.8	793.7	801.1	792.7	780.6	756.4	711.7	704.2	625.1
17.5°	799.3	798.3	804.8	819.8	833.7	833.7	830.0	803.9	754.5	749.0	658.6
20°	821.6	825.3	836.5	848.6	869.1	872.8	871.9	860.7	803.9	798.3	695.9
22.5°	866.3	864.5	873.8	892.4	911.0	916.6	917.6	917.6	860.7	850.5	734.0
25°	962.3	957.6	950.2	948.3	970.7	969.7	966.9	973.5	920.4	912.9	777.8
27.5°	1144.9	1134.6	1105.7	1048.0	1034.9	1039.6	1025.6	1026.6	988.4	979.0	815.1
30°	1318.1	1313.5	1286.4	1216.6	1143.0	1116.9	1092.7	1082.4	1063.8	1048.0	855.1
32.5°	1474.6	1475.6	1442.9	1366.6	1291.1	1209.1	1167.2	1145.8	1153.2	1139.3	910.1
35°	1580.8	1572.4	1551.9	1500.7	1418.7	1340.5	1260.4	1212.9	1252.9	1237.1	965.1
37.5°	1643.2	1636.7	1619.9	1583.6	1542.6	1467.2	1365.6	1293.0	1371.2	1347.9	1034.9
40°	1674.9	1665.6	1648.8	1633.9	1614.3	1573.4	1483.9	1384.3	1479.3	1458.8	1103.9
42.5°	1678.6	1672.1	1662.8	1655.3	1661.9	1656.3	1599.4	1490.5	1592.9	1570.6	1183.0
45°	1675.8	1680.5	1669.3	1656.3	1669.3	1716.8	1716.8	1596.7	1705.6	1688.9	1258.5
47.5°	1677.7	1673.0	1669.3	1665.6	1667.4	1732.7	1797.9	1696.3	1813.7	1794.1	1347.0
50°	1600.4	1606.9	1638.6	1652.5	1660.9	1736.4	1863.1	1804.4	1947.8	1923.6	1445.7
52.5°	1354.5	1358.2	1502.6	1606.9	1640.4	1721.5	1908.7	1924.6	2080.1	2061.5	1551.9
55°	1043.3	1062.9	1199.8	1455.1	1593.9	1696.3	1922.7	2002.8	2215.2	2200.3	1659.1
57.5°	858.9	861.7	940.8	1169.1	1446.7	1673.0	1936.7	2074.5	2336.3	2319.5	1770.8
60°	712.6	706.1	754.5	901.7	1201.7	1579.9	1939.5	2131.4	2477.0	2471.4	1886.4
62.5°	523.5	531.0	577.6	702.4	939.9	1390.8	1925.5	2179.8	2644.6	2637.2	2014.9
65°	321.4	330.7	387.5	502.1	711.7	1103.9	1834.2	2204.9	2820.7	2837.5	2153.7
67.5°	170.5	177.0	210.5	303.7	488.1	841.2	1614.3	2173.3	2969.7	2977.2	2286.9
70°	124.8	125.8	136.9	171.4	294.4	585.0	1285.5	2035.4	3061.0	3075.9	2330.7
72.5°	109.0	109.9	114.6	123.0	160.2	356.8	921.3	1795.1	3022.8	3009.8	2257.1
75°	98.7	98.7	102.5	105.3	117.4	197.5	564.5	1469.0	2731.3	2702.4	1924.6
77.5°	84.8	84.8	88.5	92.2	101.5	127.6	295.3	1089.0	2088.5	2039.1	1316.3
80°	68.0	68.0	72.7	77.3	89.4	95.9	144.4	728.5	1194.2	1121.6	599.0
82.5°	46.6	50.3	58.7	64.3	74.5	68.0	84.8	314.9	376.3	326.0	135.1
85°	27.9	29.8	41.9	48.4	55.9	36.3	52.2	121.1	112.7	98.7	30.7
87.5°	2.8	4.7	16.8	19.6	19.6	10.2	22.4	28.9	32.6	33.5	7.5
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°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
2.5°	507.7	496.5	475.1	455.5	436.0	422.9	409.9	405.2	398.7	394.0	397.8
5°	512.3	489.1	448.1	413.6	390.3	372.6	364.2	359.6	355.8	354.9	354.0
7.5°	517.9	483.5	428.5	390.3	368.0	359.6	357.7	357.7	357.7	358.6	359.6
10°	530.0	485.3	418.3	377.3	365.2	363.3	364.2	368.0	368.0	368.9	368.9
12.5°	544.0	490.0	410.8	375.4	368.0	368.9	369.8	371.7	371.7	374.5	373.5
15°	564.5	499.3	409.9	377.3	370.8	368.9	368.9	368.0	368.0	368.0	369.8
17.5°	590.6	512.3	410.8	377.3	368.0	364.2	361.4	358.6	354.9	356.8	354.9
20°	616.7	528.2	410.8	372.6	360.5	351.2	342.8	338.1	333.5	332.6	333.5
22.5°	649.3	546.8	406.1	362.4	344.7	331.6	319.5	313.0	305.5	302.7	300.9
25°	677.2	561.7	396.8	347.5	327.0	308.3	292.5	281.3	272.0	270.1	270.1
27.5°	706.1	574.8	382.9	328.8	301.8	281.3	263.6	249.7	240.3	239.4	238.5
30°	733.1	585.9	364.2	308.3	279.5	255.2	234.7	222.6	214.3	209.6	206.8
32.5°	768.5	600.8	346.5	287.8	253.4	229.2	210.5	200.3	189.1	181.6	178.9
35°	813.2	618.5	327.0	265.5	230.1	205.9	194.7	179.8	165.8	157.4	154.6
37.5°	863.5	643.7	306.5	242.2	206.8	189.1	182.6	159.3	144.4	141.6	140.7
40°	925.9	667.9	283.2	218.0	184.4	179.8	168.6	144.4	136.9	136.0	135.1
42.5°	988.4	694.0	260.8	193.8	166.7	168.6	152.8	140.7	134.1	132.3	131.3
45°	1061.0	720.1	238.5	172.3	152.8	152.8	144.4	136.9	131.3	129.5	129.5
47.5°	1137.4	746.2	214.3	153.7	142.5	136.9	137.9	132.3	128.6	126.7	125.8
50°	1233.4	771.3	191.9	140.7	136.0	128.6	131.3	127.6	125.8	123.9	123.0
52.5°	1323.7	782.5	171.4	133.2	132.3	124.8	125.8	123.9	123.0	120.2	119.2
55°	1412.2	779.7	155.6	129.5	127.6	123.9	122.0	121.1	120.2	117.4	116.4
57.5°	1510.9	776.0	145.3	128.6	124.8	121.1	121.1	118.3	114.6	114.6	114.6
60°	1613.4	763.9	140.7	128.6	123.9	121.1	119.2	116.4	112.7	113.6	112.7
62.5°	1728.9	740.6	137.9	131.3	124.8	120.2	118.3	114.6	109.9	110.9	109.9
65°	1830.5	693.1	136.0	134.1	126.7	121.1	116.4	111.8	106.2	107.1	106.2
67.5°	1899.4	612.9	130.4	136.0	129.5	120.2	114.6	108.1	100.6	104.3	103.4
70°	1879.8	498.4	120.2	132.3	132.3	121.1	111.8	103.4	95.0	102.5	99.7
72.5°	1728.0	374.5	100.6	119.2	130.4	121.1	106.2	95.9	88.5	93.2	87.6
75°	1418.7	254.3	80.1	95.0	122.0	122.0	101.5	88.5	79.2	76.4	74.5
77.5°	885.0	158.4	62.4	69.9	102.5	121.1	96.9	79.2	66.1	64.3	62.4
80°	350.3	84.8	49.4	50.3	75.5	110.9	90.4	67.1	53.1	51.2	47.5
82.5°	80.1	42.9	34.5	33.5	46.6	90.4	82.0	53.1	41.0	41.0	34.5
85°	24.2	22.4	22.4	21.4	23.3	46.6	63.3	36.3	27.9	19.6	16.8
87.5°	6.5	9.3	8.4	7.5	7.5	6.5	20.5	9.3	5.6	2.8	1.9
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)