

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: P594961

Luminaire Tested: **IST-PA1A-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
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-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3800 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

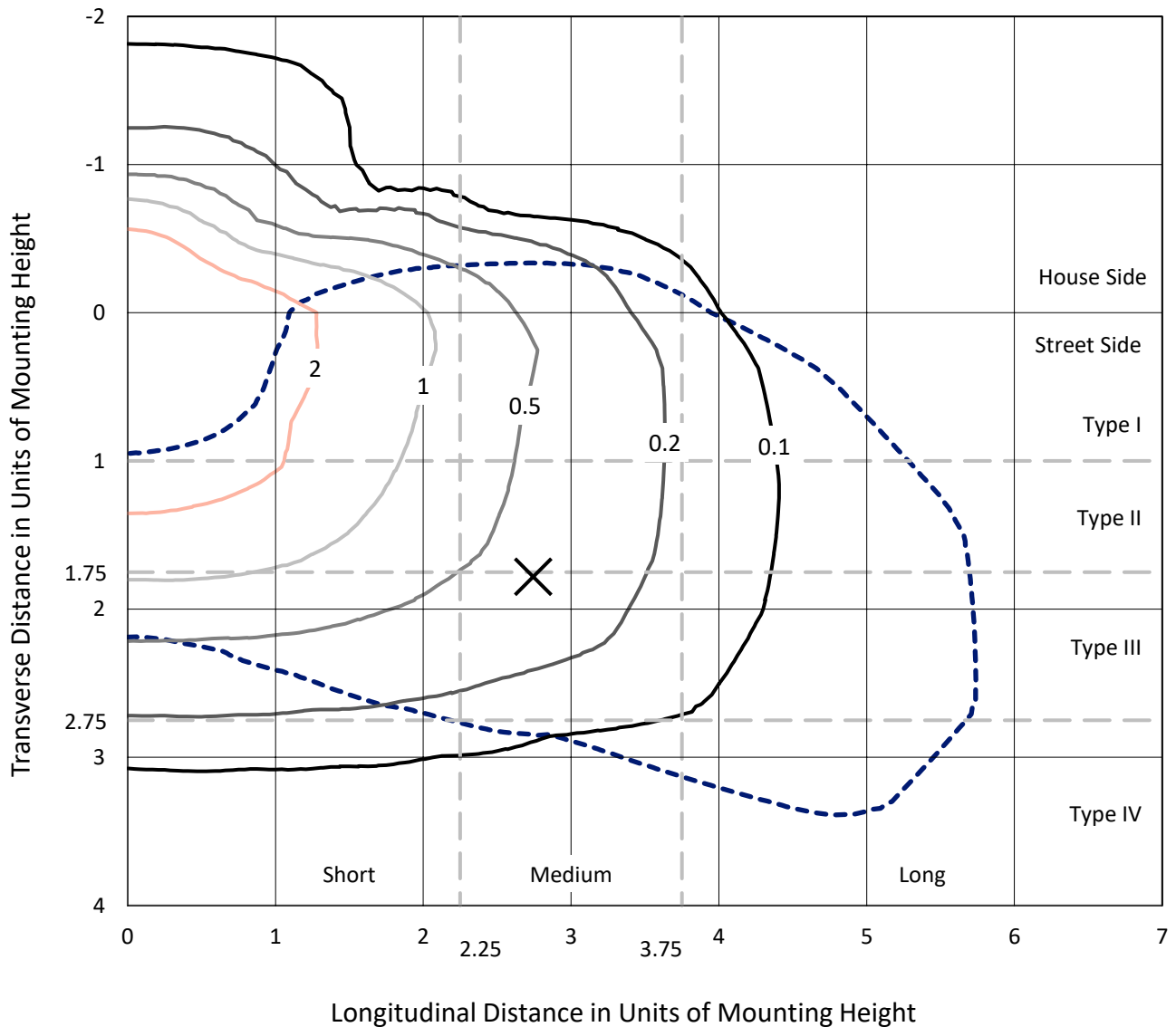
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

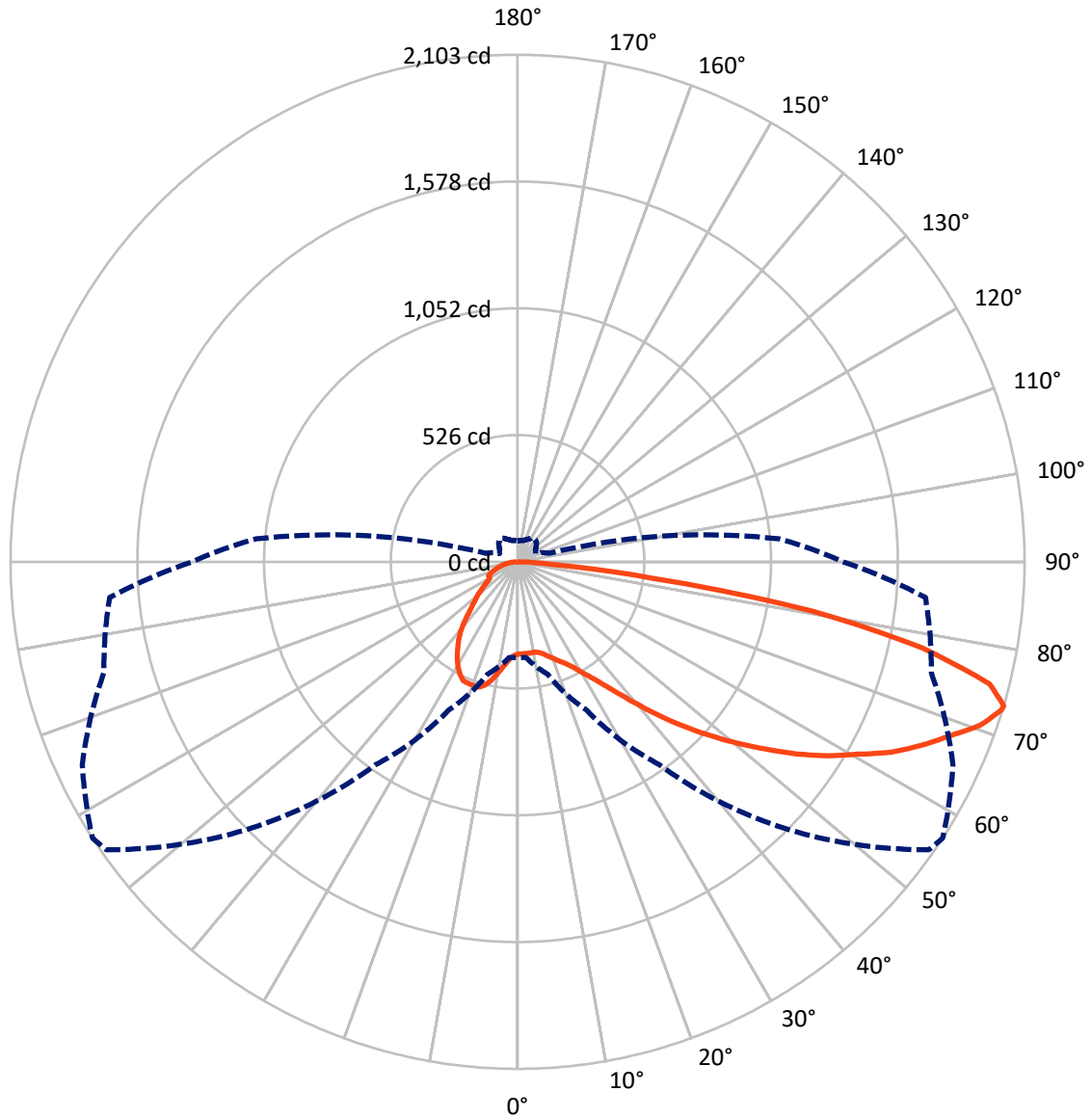
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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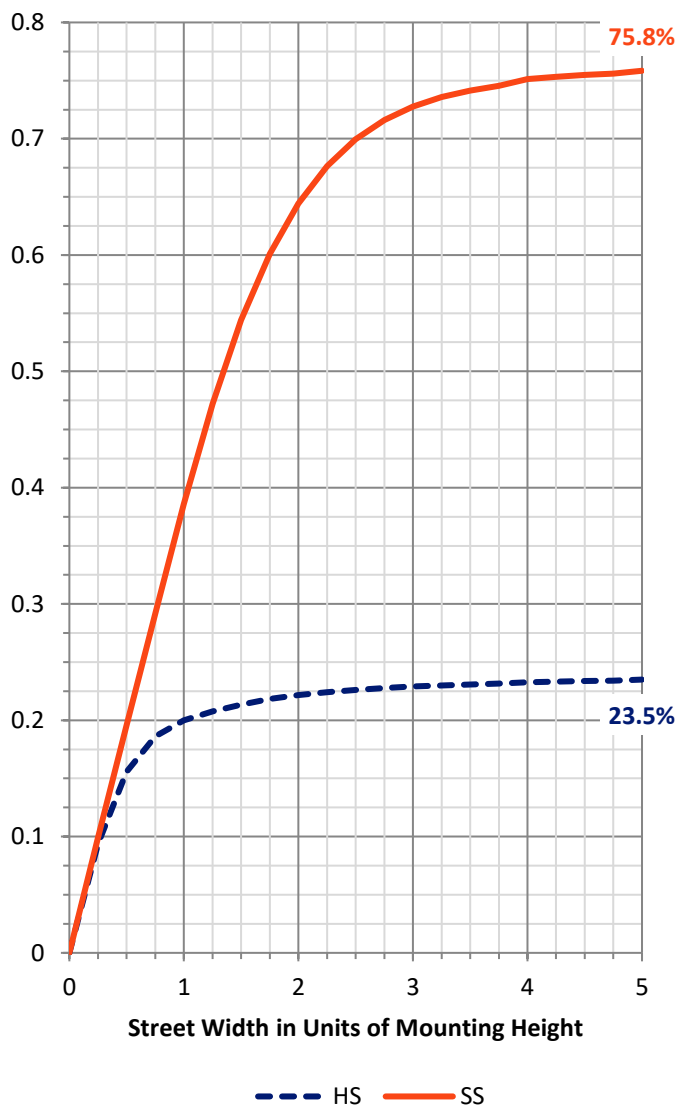
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.6	0.0	906.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2893.4	0.0	2893.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	3800.0	0.0	3800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	1.0
10°-20°	125.7	3.3
20°-30°	232.1	6.1
30°-40°	358.4	9.4
40°-50°	539.4	14.2
50°-60°	789.5	20.8
60°-70°	932.3	24.5
70°-80°	667.5	17.6
80°-90°	117.0	3.1
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°	3800.0	100.0
0°-180°	3800.0	100.0

Coefficient of Utilization

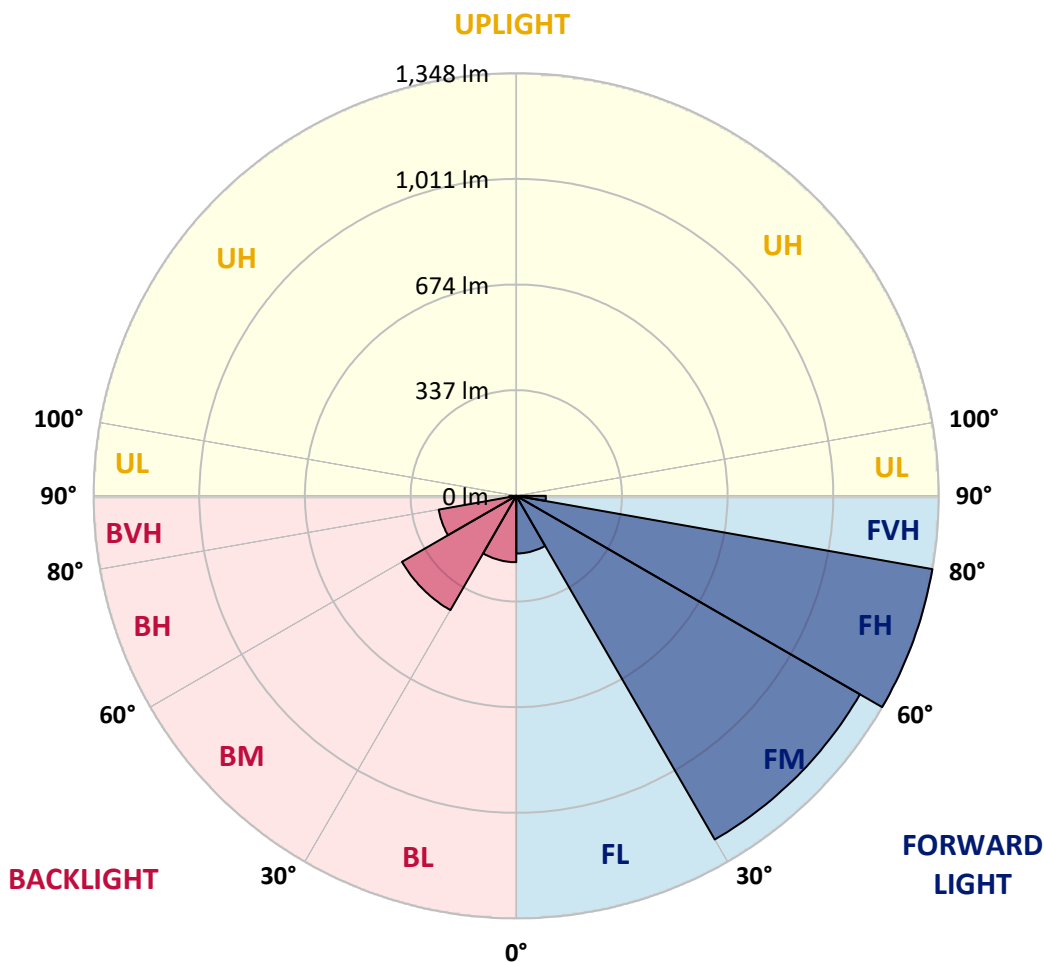


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.1	4.8			
FM	(30°-60°)	1266.3	33.3			
FH	(60°-80°)	1348.4	35.5			G1/1800
FVH	(80°-90°)	94.6	2.5			G1/100
BL	(0°-30°)	211.9	5.6	B1/500		
BM	(30°-60°)	421.0	11.1	B1/1000		
BH	(60°-80°)	251.4	6.6	B1/500		G1/500
BVH	(80°-90°)	22.3	0.6			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9
2.5°	378.2	380.1	379.1	380.1	382.9	381.0	381.0	381.9	382.9	381.9	383.8
5°	362.4	363.3	365.2	368.9	375.4	377.3	381.9	381.9	383.8	385.6	388.4
7.5°	336.3	338.1	341.9	345.6	356.8	367.9	380.1	381.9	388.4	393.1	395.0
10°	331.6	333.5	334.4	340.0	351.2	362.4	377.3	381.0	393.1	400.6	408.9
12.5°	327.0	328.8	331.6	339.1	353.0	365.2	381.0	384.7	399.6	414.5	424.8
15°	330.7	331.6	334.4	341.9	355.8	372.6	393.1	395.9	412.7	431.3	447.1
17.5°	340.0	340.9	340.0	346.5	359.6	379.1	407.1	411.7	432.2	450.9	466.7
20°	361.4	362.4	358.6	358.6	367.9	387.5	422.0	428.5	453.6	474.1	490.0
22.5°	408.0	406.1	396.8	384.7	384.7	400.6	438.7	448.1	479.7	496.5	510.5
25°	474.1	474.1	459.2	436.9	422.0	420.1	458.3	468.6	505.8	526.3	534.7
27.5°	554.2	555.2	531.0	501.2	472.3	458.3	486.2	496.5	538.4	559.8	562.6
30°	625.0	626.0	601.8	573.8	538.4	507.7	523.5	534.7	583.1	599.9	590.6
32.5°	695.8	696.8	680.0	641.8	604.6	566.4	571.0	577.5	626.9	642.7	627.8
35°	757.3	760.1	743.3	714.5	675.3	640.9	632.5	633.4	678.1	688.4	668.8
37.5°	819.7	819.7	809.5	782.5	748.9	710.7	699.6	702.4	742.4	752.7	724.7
40°	898.9	902.6	897.0	863.5	825.3	793.6	782.5	786.2	830.0	824.4	794.6
42.5°	994.9	1003.2	993.9	957.6	916.6	881.2	881.2	881.2	918.5	919.4	874.7
45°	1117.8	1117.8	1108.5	1076.8	1022.8	987.4	975.3	978.1	1010.7	1014.4	962.3
47.5°	1220.3	1229.6	1219.3	1196.1	1153.2	1119.7	1081.5	1076.8	1103.8	1103.8	1059.1
50°	1303.2	1320.0	1311.6	1321.8	1291.1	1274.3	1196.1	1183.0	1192.3	1201.7	1152.3
52.5°	1372.1	1385.2	1382.4	1412.2	1427.1	1436.4	1312.5	1292.0	1299.5	1298.5	1253.8
55°	1376.8	1381.4	1423.4	1490.4	1549.1	1592.9	1429.9	1407.5	1400.1	1396.3	1361.9
57.5°	1349.8	1352.6	1436.4	1515.6	1643.2	1693.5	1540.7	1518.4	1508.1	1495.1	1481.1
60°	1284.6	1298.5	1408.4	1530.5	1699.1	1771.7	1644.1	1620.8	1613.4	1585.4	1617.1
62.5°	1201.7	1208.2	1318.1	1499.7	1706.5	1805.3	1753.1	1739.1	1715.8	1675.8	1738.2
65°	1084.3	1083.3	1180.2	1409.4	1668.3	1822.0	1845.3	1837.9	1809.0	1740.1	1846.3
67.5°	890.5	912.0	1007.0	1249.2	1576.1	1838.8	1939.4	1930.1	1884.4	1797.8	1897.5
70°	679.1	692.1	800.2	1008.8	1392.6	1793.2	2031.6	2034.4	1951.5	1809.9	1875.1
72.5°	433.2	455.5	541.2	735.0	1115.0	1623.6	2086.6	2099.6	1988.8	1793.2	1736.3
73°	396.8	398.7	482.5	680.0	1028.4	1563.1	2082.9	2103.4	1992.5	1776.4	1698.1
75°	236.6	246.9	297.2	451.8	734.0	1255.7	1982.3	2023.2	1972.9	1701.9	1488.6
77.5°	110.8	118.3	146.2	238.5	399.6	755.5	1666.5	1714.9	1748.4	1489.5	1134.6
80°	58.7	59.6	71.7	120.2	214.2	311.1	1161.6	1241.7	1289.2	1121.5	762.9
82.5°	49.4	49.4	55.9	77.3	136.9	121.1	478.8	570.1	698.6	552.4	299.9
85°	40.1	41.0	55.9	57.8	97.8	62.4	114.6	143.5	271.1	244.1	33.5
87.5°	13.0	14.9	31.7	41.0	52.2	24.2	28.9	31.7	31.7	46.6	11.2
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°	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9
2.5°	384.7	384.7	385.6	386.6	388.4	388.4	390.3	391.2	393.1	394.0	391.2
5°	388.4	390.3	392.2	397.8	404.3	409.9	415.5	420.1	424.8	427.6	426.6
7.5°	398.7	401.5	408.9	419.2	432.2	440.6	449.0	457.4	461.1	463.0	463.0
10°	412.7	418.2	432.2	449.0	463.9	476.9	483.5	489.0	490.9	492.8	490.9
12.5°	432.2	439.7	461.1	482.5	499.3	505.8	504.9	497.4	487.2	485.3	483.5
15°	457.4	466.7	490.9	516.1	529.1	520.7	499.3	491.8	490.0	495.6	493.7
17.5°	478.8	490.0	519.8	545.9	543.1	514.2	507.7	511.4	509.5	510.5	510.5
20°	499.3	515.1	546.8	564.5	540.3	521.6	516.1	511.4	505.8	507.7	505.8
22.5°	525.4	536.6	572.9	573.8	536.6	521.6	509.5	500.2	498.4	499.3	500.2
25°	545.9	563.6	595.2	567.3	536.6	506.7	490.0	488.1	489.0	494.6	492.8
27.5°	573.8	591.5	612.9	563.6	514.2	482.5	476.0	475.1	468.6	470.4	470.4
30°	599.9	621.3	622.3	563.6	486.2	462.0	452.7	435.9	422.0	424.8	423.8
32.5°	635.3	653.9	624.1	541.2	454.6	435.0	409.9	383.8	377.3	381.0	381.9
35°	676.3	691.2	626.0	503.9	422.9	396.8	351.2	336.3	335.3	338.1	340.9
37.5°	730.3	738.7	639.9	461.1	392.2	337.2	301.8	298.1	289.7	284.1	285.0
40°	796.4	786.2	667.0	422.9	355.8	283.2	268.3	258.0	242.2	226.4	229.2
42.5°	870.0	841.2	675.3	392.2	306.5	249.6	235.7	219.8	200.3	183.5	182.6
45°	949.2	902.6	667.9	367.9	257.1	224.5	209.6	191.0	167.7	153.7	153.7
47.5°	1043.3	961.3	644.6	348.4	222.6	202.1	183.5	164.9	149.0	136.0	136.0
50°	1146.7	1029.3	627.8	313.9	198.4	180.7	162.1	147.2	135.1	124.8	124.8
52.5°	1255.7	1093.6	613.9	263.6	177.0	161.2	148.1	136.0	125.8	112.7	110.8
55°	1366.5	1155.1	620.4	215.2	157.4	147.2	138.8	126.7	123.0	120.2	118.3
57.5°	1482.0	1222.1	636.2	176.1	140.7	139.7	136.0	144.4	152.8	147.2	144.4
60°	1572.4	1274.3	638.1	148.1	130.4	147.2	165.8	168.6	146.2	133.2	132.3
62.5°	1644.1	1323.7	594.3	128.5	133.2	173.3	177.0	149.0	126.7	121.1	121.1
65°	1681.4	1341.4	477.9	117.4	138.8	165.8	160.2	134.1	118.3	117.4	117.4
67.5°	1662.7	1327.4	334.4	105.3	123.0	143.5	143.5	123.0	109.0	113.6	111.8
70°	1573.3	1258.5	220.8	95.0	108.1	129.5	133.2	114.6	101.5	104.3	101.5
72.5°	1387.0	1135.5	145.3	83.8	93.2	114.6	123.9	105.3	93.2	92.2	89.4
73°	1350.7	1088.9	136.9	82.0	90.4	110.8	121.1	103.4	91.3	88.5	86.6
75°	1145.8	908.2	103.4	73.6	80.1	99.7	112.7	96.9	83.8	80.1	78.2
77.5°	834.6	629.7	77.3	62.4	67.1	86.6	99.7	88.5	74.5	69.9	68.9
80°	520.7	342.8	57.8	50.3	53.1	72.7	87.6	79.2	64.3	58.7	57.8
82.5°	204.0	111.8	40.1	37.3	39.1	55.0	73.6	68.9	54.0	49.4	46.6
85°	33.5	38.2	26.1	25.2	25.2	39.1	55.9	53.1	36.3	31.7	27.9
87.5°	9.3	17.7	10.2	9.3	9.3	16.8	30.7	24.2	14.9	12.1	11.2
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)