

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: P595006

Luminaire Tested: **IST-PA1A-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595006
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-830-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3241 lumens
Efficiency: N/A
Efficacy: 112.5 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

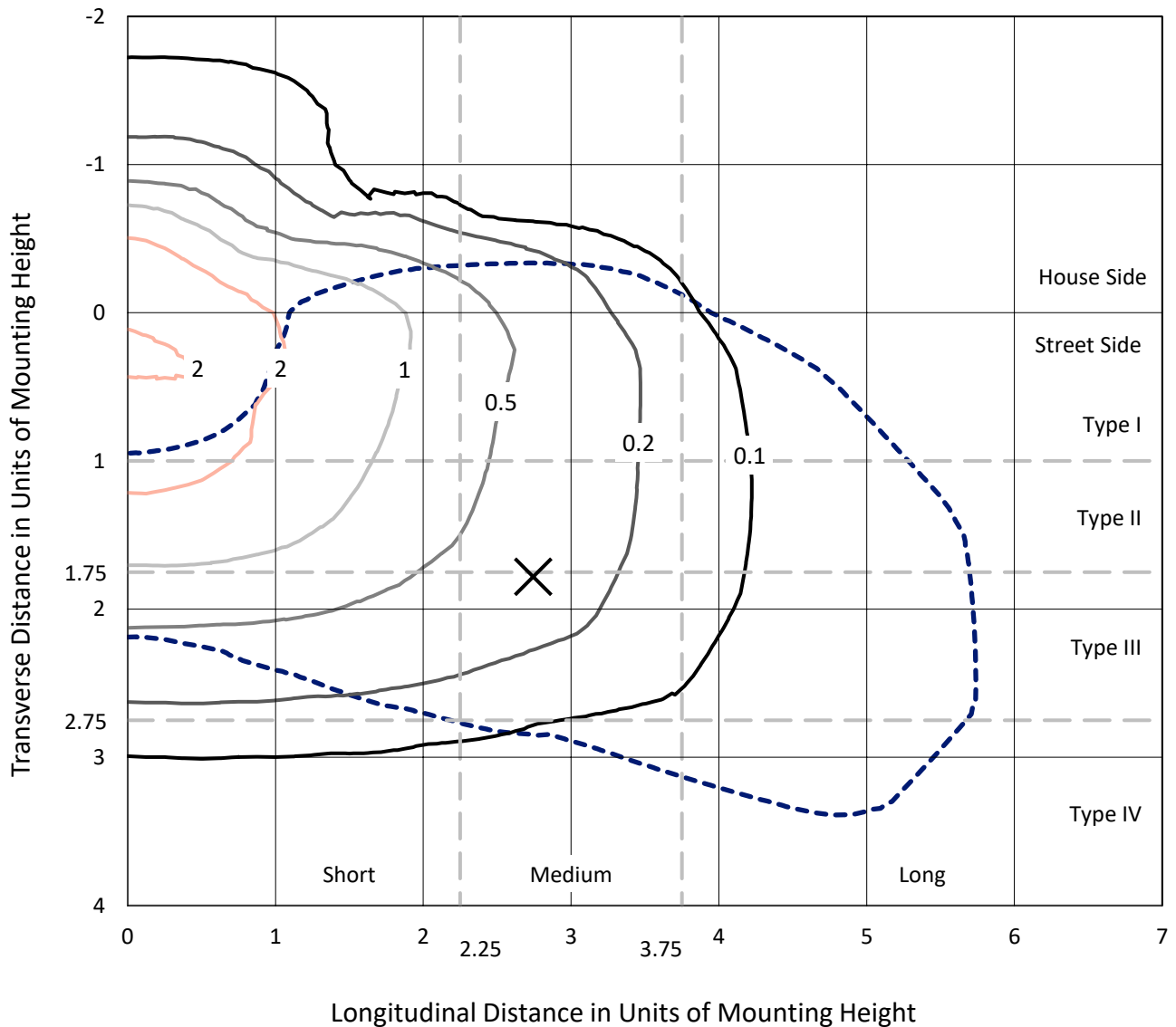
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

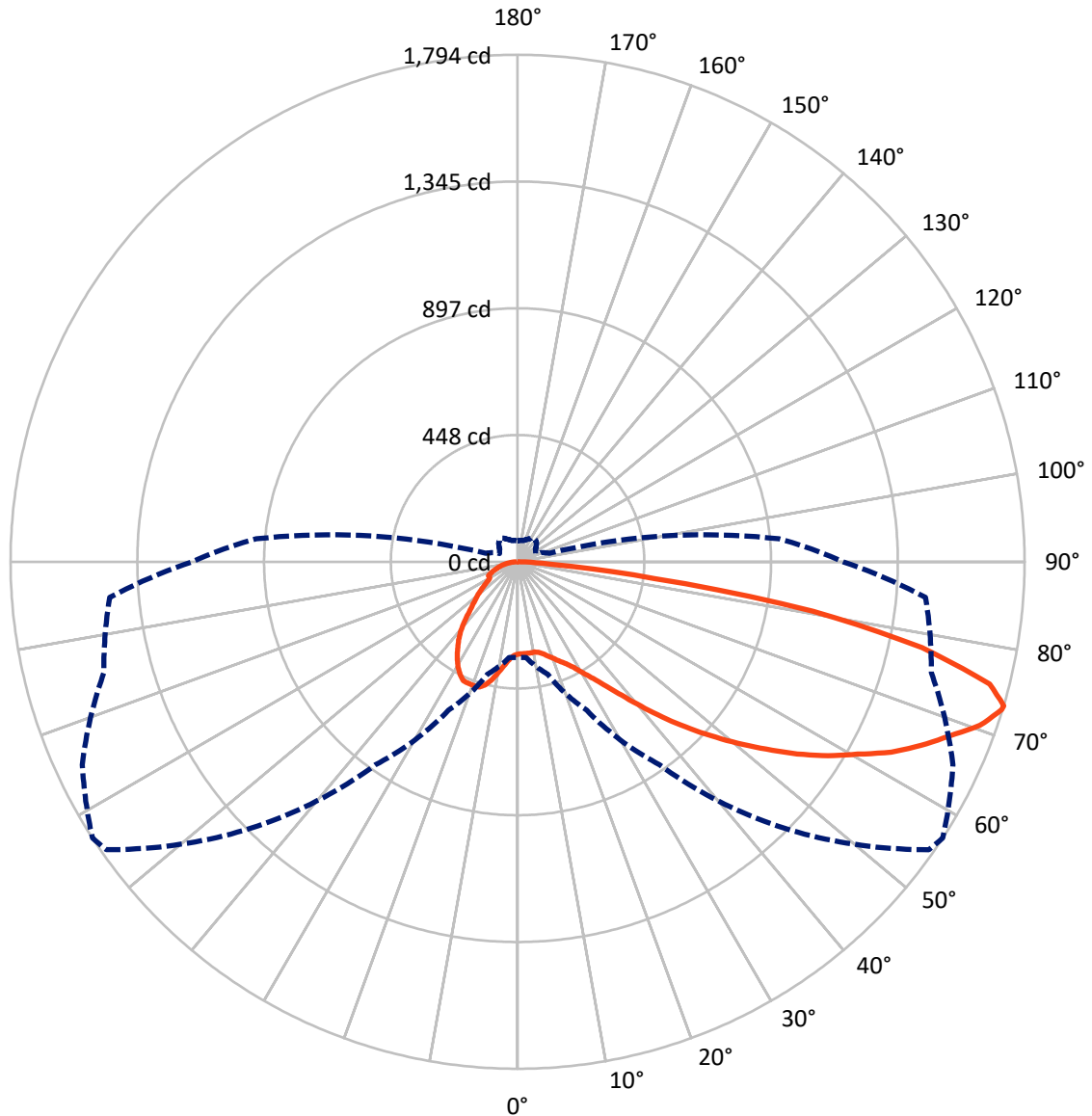
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.8 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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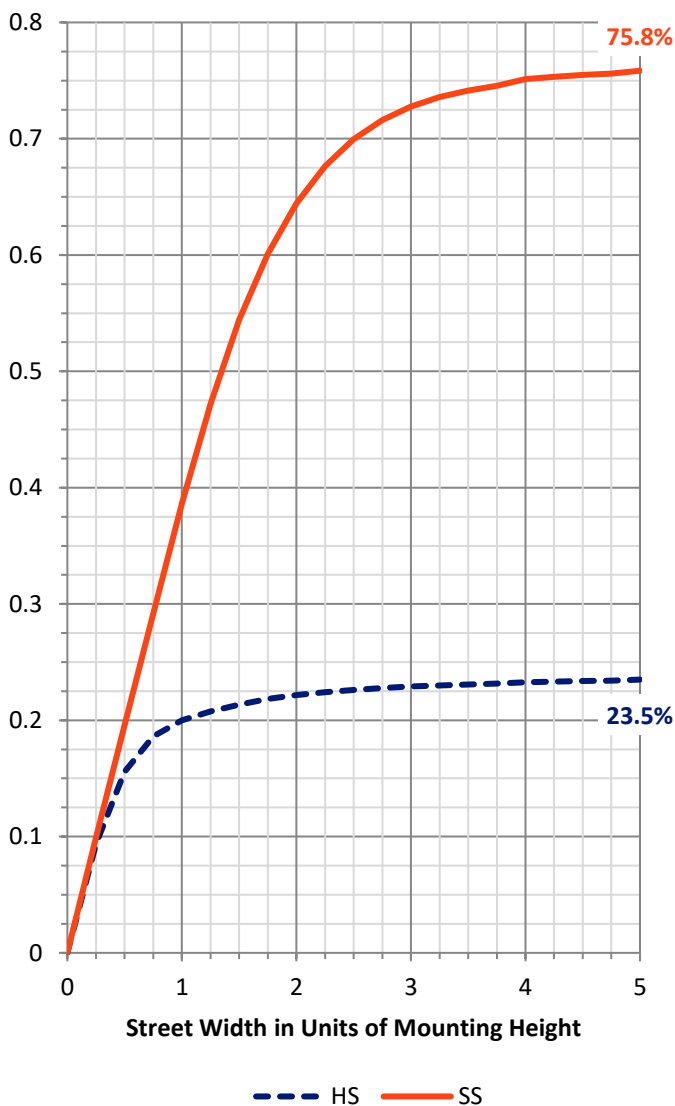
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	773.2	0.0	773.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2467.8	0.0	2467.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	3241.0	0.0	3241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	1.0
10°-20°	107.2	3.3
20°-30°	197.9	6.1
30°-40°	305.6	9.4
40°-50°	460.1	14.2
50°-60°	673.3	20.8
60°-70°	795.2	24.5
70°-80°	569.3	17.6
80°-90°	99.8	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°	3241.0	100.0
0°-180°	3241.0	100.0

Coefficient of Utilization

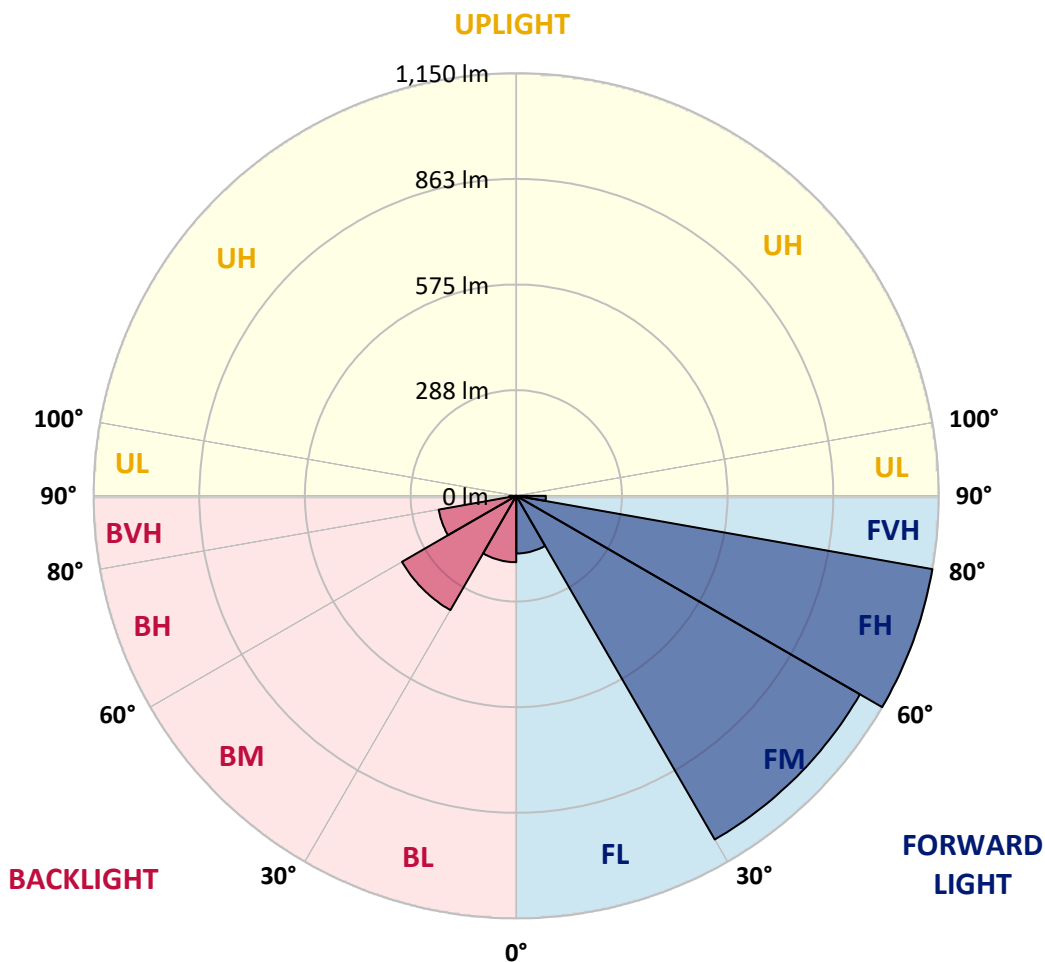


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.0	4.8			
FM (30°-60°)	1080.0	33.3			
FH (60°-80°)	1150.1	35.5			G1/1800
FVH (80°-90°)	80.7	2.5			G1/100
BL (0°-30°)	180.7	5.6	B1/500		
BM (30°-60°)	359.1	11.1	B1/1000		
BH (60°-80°)	214.4	6.6	B1/500		G1/500
BVH (80°-90°)	19.1	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°	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5
2.5°	322.6	324.1	323.4	324.1	326.5	324.9	324.9	325.7	326.5	325.7	327.3
5°	309.1	309.8	311.4	314.6	320.2	321.8	325.7	325.7	327.3	328.9	331.3
7.5°	286.8	288.4	291.6	294.8	304.3	313.8	324.1	325.7	331.3	335.3	336.9
10°	282.8	284.4	285.2	290.0	299.5	309.1	321.8	324.9	335.3	341.6	348.8
12.5°	278.9	280.5	282.8	289.2	301.1	311.4	324.9	328.1	340.8	353.5	362.3
15°	282.0	282.8	285.2	291.6	303.5	317.8	335.3	337.7	352.0	367.8	381.4
17.5°	290.0	290.8	290.0	295.5	306.7	323.4	347.2	351.2	368.6	384.5	398.0
20°	308.3	309.1	305.9	305.9	313.8	330.5	359.9	365.5	386.9	404.4	417.9
22.5°	348.0	346.4	338.4	328.1	328.1	341.6	374.2	382.1	409.2	423.5	435.4
25°	404.4	404.4	391.7	372.6	359.9	358.3	390.9	399.6	431.4	448.9	456.0
27.5°	472.7	473.5	452.9	427.4	402.8	390.9	414.7	423.5	459.2	477.5	479.9
30°	533.1	533.9	513.2	489.4	459.2	433.0	446.5	456.0	497.3	511.6	503.7
32.5°	593.5	594.3	580.0	547.4	515.6	483.0	487.0	492.6	534.7	548.2	535.5
35°	645.9	648.3	634.0	609.4	576.0	546.6	539.5	540.2	578.4	587.1	570.4
37.5°	699.1	699.1	690.4	667.4	638.8	606.2	596.7	599.0	633.2	641.9	618.1
40°	766.7	769.9	765.1	736.5	703.9	676.9	667.4	670.5	707.9	703.1	677.7
42.5°	848.5	855.7	847.7	816.7	781.8	751.6	751.6	751.6	783.4	784.2	746.0
45°	953.4	953.4	945.4	918.4	872.3	842.2	831.8	834.2	862.0	865.2	820.7
47.5°	1040.8	1048.7	1040.0	1020.1	983.6	955.0	922.4	918.4	941.5	941.5	903.3
50°	1111.5	1125.8	1118.6	1127.4	1101.2	1086.9	1020.1	1009.0	1016.9	1024.9	982.8
52.5°	1170.3	1181.4	1179.0	1204.4	1217.1	1225.1	1119.4	1101.9	1108.3	1107.5	1069.4
55°	1174.2	1178.2	1214.0	1271.2	1321.2	1358.6	1219.5	1200.5	1194.1	1190.9	1161.5
57.5°	1151.2	1153.6	1225.1	1292.6	1401.5	1444.4	1314.1	1295.0	1286.3	1275.1	1263.2
60°	1095.6	1107.5	1201.3	1305.3	1449.1	1511.1	1402.3	1382.4	1376.0	1352.2	1379.2
62.5°	1024.9	1030.4	1124.2	1279.1	1455.5	1539.7	1495.2	1483.3	1463.4	1429.3	1482.5
65°	924.8	924.0	1006.6	1202.1	1422.9	1554.0	1573.9	1567.5	1542.9	1484.1	1574.7
67.5°	759.5	777.8	858.8	1065.4	1344.3	1568.3	1654.1	1646.2	1607.2	1533.4	1618.4
70°	579.2	590.3	682.5	860.4	1187.8	1529.4	1732.8	1735.1	1664.4	1543.7	1599.3
72.5°	369.4	388.5	461.6	626.8	951.0	1384.8	1779.6	1790.8	1696.2	1529.4	1480.9
73°	338.4	340.0	411.5	580.0	877.1	1333.1	1776.5	1793.9	1699.4	1515.1	1448.3
75°	201.8	210.5	253.4	385.3	626.1	1071.0	1690.7	1725.6	1682.7	1451.5	1269.6
77.5°	94.5	100.9	124.7	203.4	340.8	644.3	1421.3	1462.6	1491.2	1270.4	967.7
80°	50.1	50.8	61.2	102.5	182.7	265.4	990.7	1059.0	1099.6	956.6	650.7
82.5°	42.1	42.1	47.7	65.9	116.8	103.3	408.4	486.2	595.9	471.1	255.8
85°	34.2	35.0	47.7	49.3	83.4	53.2	97.7	122.4	231.2	208.2	28.6
87.5°	11.1	12.7	27.0	35.0	44.5	20.7	24.6	27.0	27.0	39.7	9.5
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°	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5
2.5°	328.1	328.1	328.9	329.7	331.3	331.3	332.9	333.7	335.3	336.1	333.7
5°	331.3	332.9	334.5	339.2	344.8	349.6	354.3	358.3	362.3	364.7	363.9
7.5°	340.0	342.4	348.8	357.5	368.6	375.8	382.9	390.1	393.3	394.9	394.9
10°	352.0	356.7	368.6	382.9	395.7	406.8	412.3	417.1	418.7	420.3	418.7
12.5°	368.6	375.0	393.3	411.5	425.8	431.4	430.6	424.3	415.5	413.9	412.3
15°	390.1	398.0	418.7	440.1	451.3	444.1	425.8	419.5	417.9	422.7	421.1
17.5°	408.4	417.9	443.3	465.6	463.2	438.6	433.0	436.2	434.6	435.4	435.4
20°	425.8	439.3	466.4	481.5	460.8	444.9	440.1	436.2	431.4	433.0	431.4
22.5°	448.1	457.6	488.6	489.4	457.6	444.9	434.6	426.6	425.0	425.8	426.6
25°	465.6	480.7	507.7	483.8	457.6	432.2	417.9	416.3	417.1	421.9	420.3
27.5°	489.4	504.5	522.8	480.7	438.6	411.5	406.0	405.2	399.6	401.2	401.2
30°	511.6	529.9	530.7	480.7	414.7	394.1	386.1	371.8	359.9	362.3	361.5
32.5°	541.8	557.7	532.3	461.6	387.7	371.0	349.6	327.3	321.8	324.9	325.7
35°	576.8	589.5	533.9	429.8	360.7	338.4	299.5	286.8	286.0	288.4	290.8
37.5°	622.9	630.0	545.8	393.3	334.5	287.6	257.4	254.2	247.1	242.3	243.1
40°	679.3	670.5	568.8	360.7	303.5	241.5	228.8	220.1	206.6	193.1	195.4
42.5°	742.0	717.4	576.0	334.5	261.4	212.9	201.0	187.5	170.8	156.5	155.7
45°	809.6	769.9	569.6	313.8	219.3	191.5	178.8	162.9	143.0	131.1	131.1
47.5°	889.8	819.9	549.8	297.1	189.9	172.4	156.5	140.6	127.1	116.0	116.0
50°	978.0	877.9	535.5	267.7	169.2	154.1	138.2	125.5	115.2	106.5	106.5
52.5°	1071.0	932.7	523.6	224.8	151.0	137.4	126.3	116.0	107.3	96.1	94.5
55°	1165.5	985.2	529.1	183.5	134.3	125.5	118.4	108.0	104.9	102.5	100.9
57.5°	1264.0	1042.4	542.6	150.2	120.0	119.2	116.0	123.1	130.3	125.5	123.1
60°	1341.1	1086.9	544.2	126.3	111.2	125.5	141.4	143.8	124.7	113.6	112.8
62.5°	1402.3	1129.0	506.9	109.6	113.6	147.8	151.0	127.1	108.0	103.3	103.3
65°	1434.0	1144.1	407.6	100.1	118.4	141.4	136.7	114.4	100.9	100.1	100.1
67.5°	1418.2	1132.1	285.2	89.8	104.9	122.4	122.4	104.9	93.0	96.9	95.3
70°	1341.9	1073.3	188.3	81.0	92.2	110.4	113.6	97.7	86.6	89.0	86.6
72.5°	1183.0	968.5	123.9	71.5	79.4	97.7	105.7	89.8	79.4	78.7	76.3
73°	1152.0	928.7	116.8	69.9	77.1	94.5	103.3	88.2	77.9	75.5	73.9
75°	977.2	774.6	88.2	62.8	68.3	85.0	96.1	82.6	71.5	68.3	66.7
77.5°	711.9	537.1	65.9	53.2	57.2	73.9	85.0	75.5	63.6	59.6	58.8
80°	444.1	292.4	49.3	42.9	45.3	62.0	74.7	67.5	54.8	50.1	49.3
82.5°	174.0	95.3	34.2	31.8	33.4	46.9	62.8	58.8	46.1	42.1	39.7
85°	28.6	32.6	22.2	21.5	21.5	33.4	47.7	45.3	31.0	27.0	23.8
87.5°	7.9	15.1	8.7	7.9	7.9	14.3	26.2	20.7	12.7	10.3	9.5
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)