

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: P594999

Luminaire Tested: **IST-PA1A-827-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594999
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-827-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 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: 3001 lumens
Efficiency: N/A
Efficacy: 104.2 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

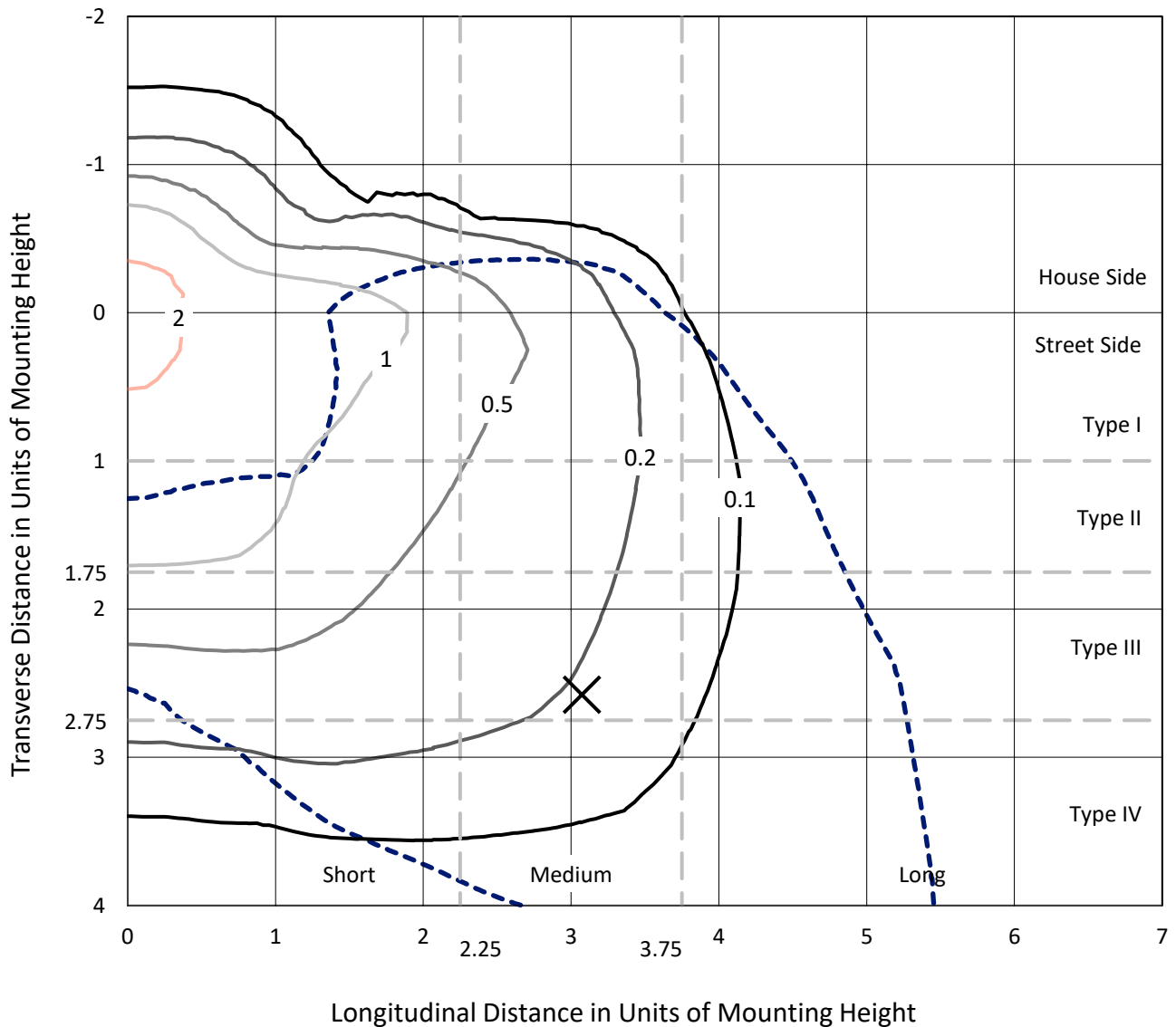
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

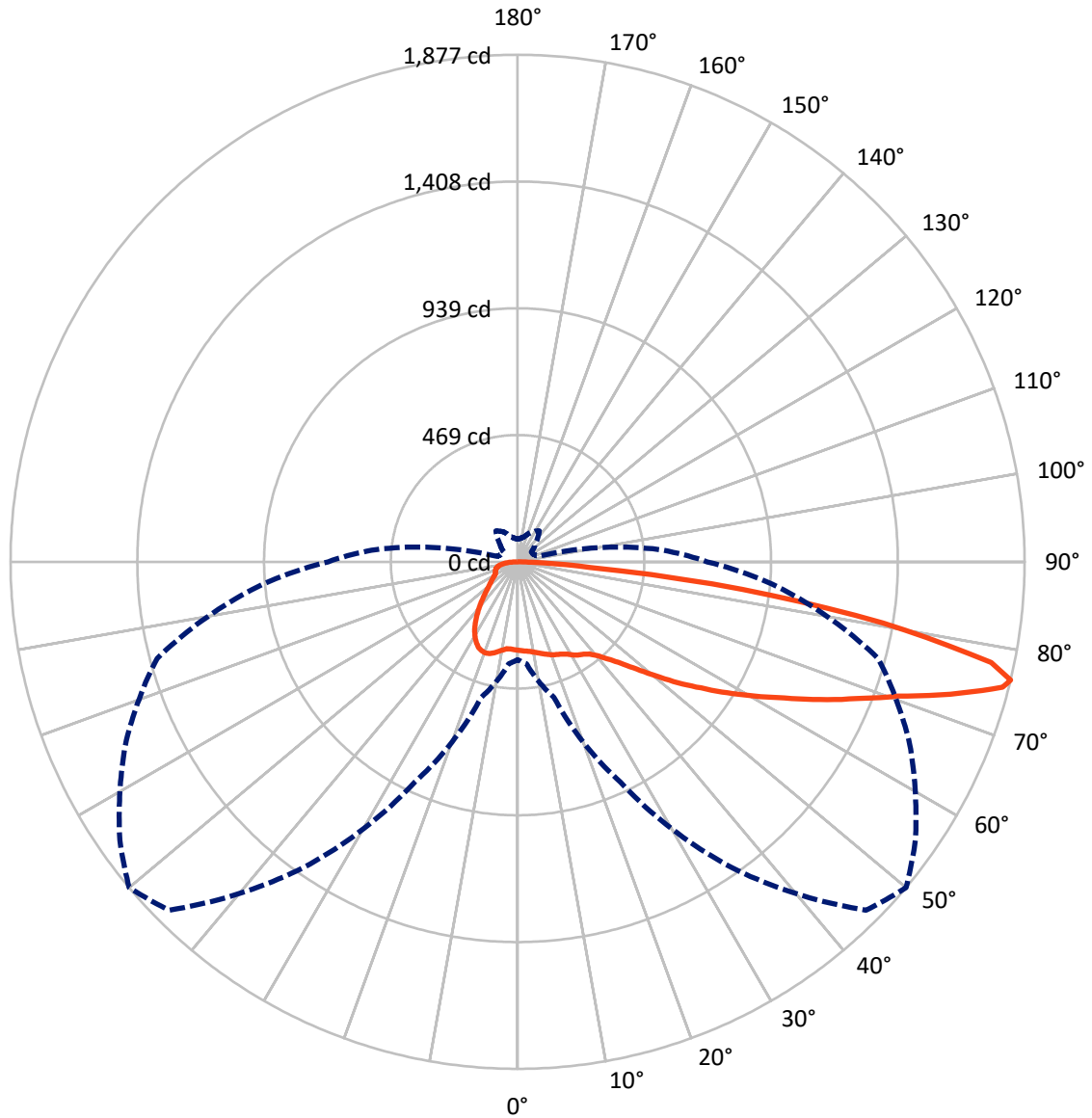
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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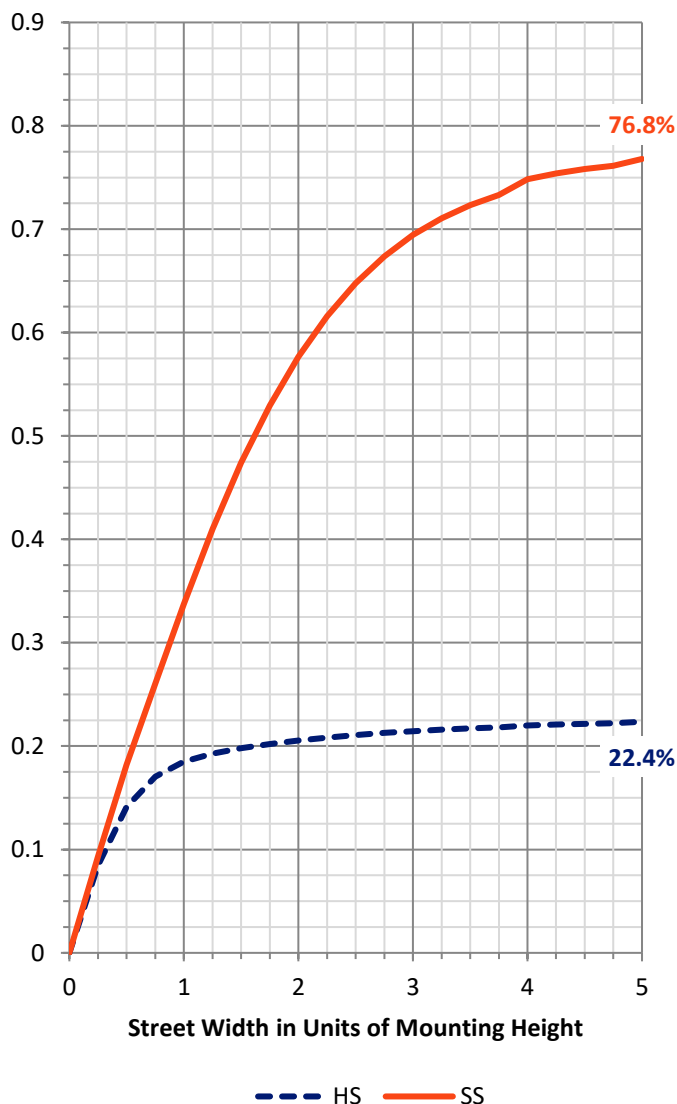
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.5	0.0	686.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2314.5	0.0	2314.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	3001.0	0.0	3001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	1.1
10°-20°	99.9	3.3
20°-30°	168.7	5.6
30°-40°	231.2	7.7
40°-50°	340.5	11.3
50°-60°	535.7	17.9
60°-70°	771.1	25.7
70°-80°	701.1	23.4
80°-90°	121.0	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°	3001.0	100.0
0°-180°	3001.0	100.0

Coefficient of Utilization

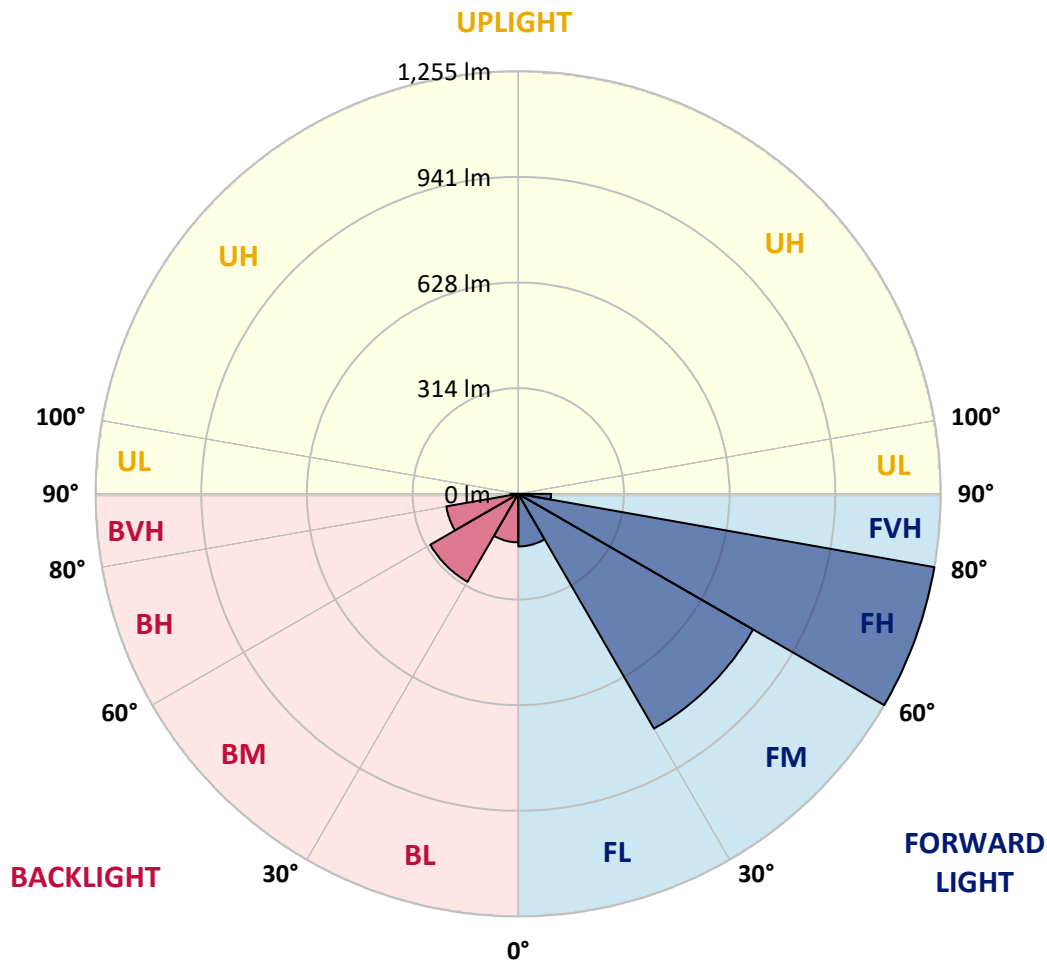


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.2	5.2			
FM (30°-60°)	805.7	26.8			
FH (60°-80°)	1255.2	41.8			G1/1800
FVH (80°-90°)	97.4	3.2			G1/100
BL (0°-30°)	144.1	4.8	B1/500		
BM (30°-60°)	301.7	10.1	B1/1000		
BH (60°-80°)	217.0	7.2	B1/500		G1/500
BVH (80°-90°)	23.6	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-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1
2.5°	334.5	334.5	335.2	333.7	333.7	330.0	330.0	329.3	327.8	327.1	325.6
5°	346.9	346.9	344.7	341.1	338.9	334.5	332.2	330.8	327.8	324.2	320.5
7.5°	360.2	358.7	357.2	351.4	346.9	338.9	335.2	333.0	327.1	322.0	319.8
10°	374.1	371.9	368.3	360.9	354.3	344.7	340.3	337.4	330.8	326.4	321.2
12.5°	382.2	382.2	377.8	369.0	360.2	348.4	346.2	342.5	335.9	330.0	324.9
15°	390.3	391.1	386.6	376.4	366.1	357.2	353.6	351.4	344.0	335.2	328.6
17.5°	398.4	397.7	393.3	381.5	370.5	362.4	360.2	357.2	349.9	341.8	335.2
20°	404.3	402.8	401.3	386.6	375.6	370.5	367.5	365.3	358.0	349.2	340.3
22.5°	405.8	407.2	405.8	388.1	379.3	373.4	372.7	370.5	364.6	356.5	347.7
25°	406.5	407.2	409.4	392.5	384.4	380.0	378.6	377.1	372.7	366.1	354.3
27.5°	410.2	410.9	410.9	395.5	391.1	388.1	386.6	386.6	384.4	376.4	364.6
30°	410.9	411.6	413.1	402.8	401.3	399.1	399.9	399.1	395.5	386.6	373.4
32.5°	416.0	416.8	420.5	407.2	408.7	410.9	411.6	410.9	403.5	396.2	385.2
35°	433.0	432.2	435.2	418.2	416.8	417.5	419.7	419.0	416.0	409.4	402.1
37.5°	487.3	487.3	479.3	444.0	433.0	431.5	433.0	436.6	437.4	431.5	425.6
40°	582.9	577.8	573.3	496.9	461.6	452.8	457.2	459.4	465.3	465.3	465.3
42.5°	681.4	682.1	680.7	579.2	513.1	491.0	491.8	496.9	509.4	511.6	518.2
45°	768.9	774.0	785.0	674.8	588.8	539.5	534.4	539.5	557.2	571.9	588.8
47.5°	837.2	831.4	855.6	774.8	675.5	605.7	592.5	593.9	618.2	641.7	668.2
50°	896.0	897.5	908.5	876.9	785.0	680.7	663.0	660.1	694.6	719.6	764.5
52.5°	962.2	957.8	974.0	966.6	891.6	772.5	744.6	735.8	773.3	808.6	857.1
55°	993.8	998.2	1031.3	1049.7	992.3	854.9	824.0	826.9	866.6	904.1	971.8
57.5°	1049.7	1054.1	1092.3	1130.5	1082.0	942.3	915.2	915.2	960.0	1001.9	1106.3
60°	1126.1	1126.8	1165.8	1232.0	1160.7	1026.9	1009.2	1008.5	1057.0	1105.5	1265.0
62.5°	1159.9	1168.7	1226.8	1312.8	1263.6	1130.5	1109.9	1115.8	1159.2	1215.8	1442.2
65°	1114.4	1133.5	1254.7	1367.2	1355.5	1238.6	1230.5	1238.6	1265.0	1326.1	1629.6
67.5°	963.7	989.4	1203.3	1404.0	1429.0	1363.5	1351.8	1350.3	1367.2	1435.6	1748.0
70°	885.7	901.2	1067.3	1417.9	1487.8	1490.0	1490.0	1480.4	1478.2	1528.2	1759.0
72.5°	729.2	745.4	900.4	1340.0	1543.6	1659.0	1675.9	1640.7	1586.3	1576.0	1574.5
75°	519.7	531.4	665.2	1054.1	1472.3	1821.5	1855.3	1786.9	1635.5	1471.6	1148.2
76°	362.4	379.3	519.7	900.4	1382.6	1824.4	1877.3	1798.0	1602.4	1381.9	946.0
77.5°	183.8	189.6	300.6	605.0	1157.0	1740.6	1792.1	1703.1	1458.4	1116.6	600.5
80°	69.8	72.0	107.3	220.5	635.1	1351.8	1371.6	1251.8	965.1	477.1	216.1
82.5°	36.8	38.2	60.3	108.8	260.9	743.1	838.7	698.3	378.6	143.3	63.2
85°	18.4	19.8	35.3	66.2	129.4	232.3	269.0	254.3	125.7	54.4	23.5
87.5°	7.4	8.8	17.6	29.4	52.2	45.6	50.7	65.4	40.4	25.7	8.1
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°	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1
2.5°	325.6	324.9	325.6	324.9	325.6	325.6	326.4	324.9	324.9	326.4	324.2
5°	320.5	319.8	320.5	322.0	322.7	324.2	327.1	326.4	327.8	329.3	330.0
7.5°	318.3	317.5	319.8	320.5	322.7	325.6	330.0	333.0	334.5	337.4	335.9
10°	320.5	320.5	323.4	325.6	329.3	333.0	336.7	339.6	343.3	345.5	344.7
12.5°	324.2	323.4	328.6	331.5	336.7	340.3	343.3	344.7	347.7	350.6	349.9
15°	327.8	328.6	335.9	341.8	347.7	349.2	349.9	348.4	349.9	351.4	351.4
17.5°	335.2	335.9	344.0	350.6	355.8	354.3	350.6	346.9	346.9	347.7	348.4
20°	341.1	342.5	352.1	358.0	360.9	355.0	349.2	344.7	342.5	343.3	342.5
22.5°	347.7	350.6	360.2	363.1	358.7	351.4	344.0	338.1	338.1	338.9	338.9
25°	355.8	357.2	363.9	362.4	354.3	343.3	337.4	335.2	334.5	335.2	335.9
27.5°	363.1	363.9	367.5	357.2	341.8	330.0	327.8	328.6	329.3	330.0	330.8
30°	372.7	374.1	370.5	349.9	326.4	313.1	313.1	317.5	319.0	321.2	320.5
32.5°	384.4	385.9	374.9	340.3	306.5	293.3	294.0	300.6	305.1	306.5	307.3
35°	404.3	401.3	377.8	327.1	285.2	269.0	269.8	277.9	283.7	285.9	284.5
37.5°	428.5	427.8	382.2	310.2	258.7	244.0	244.8	248.5	254.3	255.1	255.8
40°	469.0	463.1	389.6	288.1	232.3	218.3	216.8	219.0	218.3	219.8	220.5
42.5°	527.0	511.6	399.1	263.2	208.8	194.1	192.6	188.9	184.5	180.1	177.9
45°	595.4	571.1	410.9	237.4	184.5	171.3	167.6	163.2	154.4	144.8	141.9
47.5°	683.6	637.3	424.1	211.7	161.7	151.4	148.5	141.9	131.6	120.6	118.3
50°	774.0	715.2	437.4	190.4	143.3	137.5	134.5	127.9	114.7	104.4	102.2
52.5°	879.1	792.4	451.3	171.3	127.2	127.2	125.0	114.7	102.2	92.6	91.1
55°	1000.4	871.8	473.4	152.9	115.4	118.3	115.4	105.1	93.4	86.7	86.0
57.5°	1145.2	972.5	501.3	133.0	105.1	107.3	107.3	100.0	91.9	87.5	86.7
60°	1290.8	1074.7	519.0	118.3	97.0	99.2	103.6	100.0	94.8	92.6	91.9
62.5°	1430.4	1179.0	488.8	105.8	88.9	95.6	106.6	107.3	102.2	102.9	102.9
65°	1534.8	1258.4	395.5	94.8	83.8	97.8	115.4	116.1	107.3	105.1	104.4
67.5°	1570.8	1280.5	266.1	87.5	80.9	99.2	125.7	122.8	107.3	102.9	100.7
70°	1502.5	1199.6	172.7	80.9	76.4	97.8	133.8	126.4	106.6	100.0	97.0
72.5°	1259.9	1023.2	115.4	75.0	72.0	96.3	138.9	126.4	104.4	94.8	91.9
75°	874.7	699.0	86.0	67.6	65.4	94.1	140.4	124.2	99.2	88.9	86.7
76°	702.0	524.1	77.9	64.7	62.5	92.6	139.7	122.0	95.6	86.0	83.8
77.5°	443.2	301.4	65.4	59.5	58.1	89.7	136.7	116.9	90.4	80.9	78.7
80°	155.1	110.3	50.0	48.5	49.2	83.1	128.6	106.6	80.1	71.3	68.4
82.5°	61.7	50.7	37.5	37.5	39.0	71.3	116.1	94.1	69.8	58.8	54.4
85°	24.3	22.1	26.5	26.5	27.9	58.1	97.0	73.5	47.8	36.8	35.3
87.5°	7.4	10.3	11.8	12.5	13.2	29.4	55.1	32.3	21.3	15.4	12.5
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)