

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: P594942

Luminaire Tested: **IST-PA1A-727-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1A-727-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2511 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

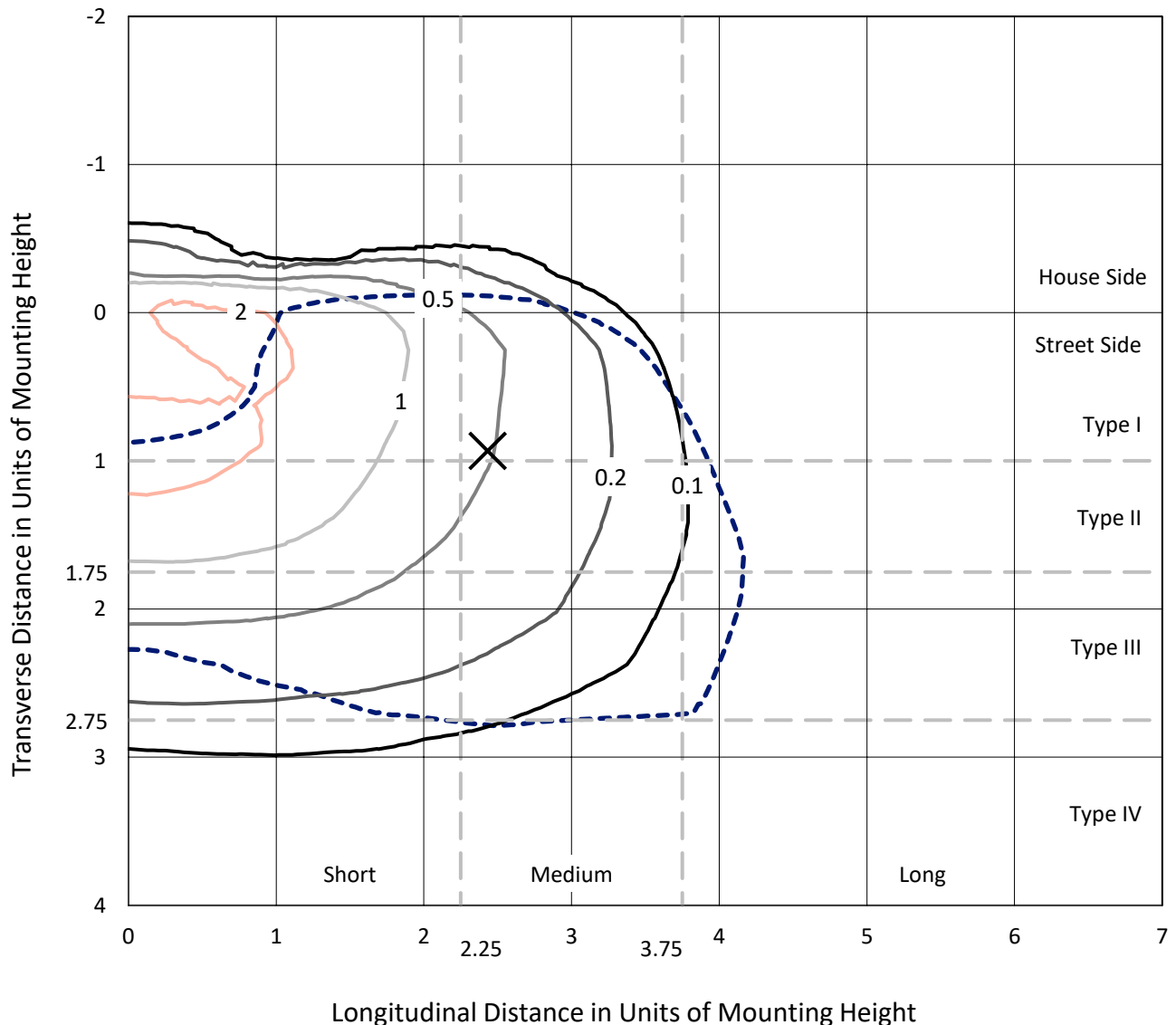
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

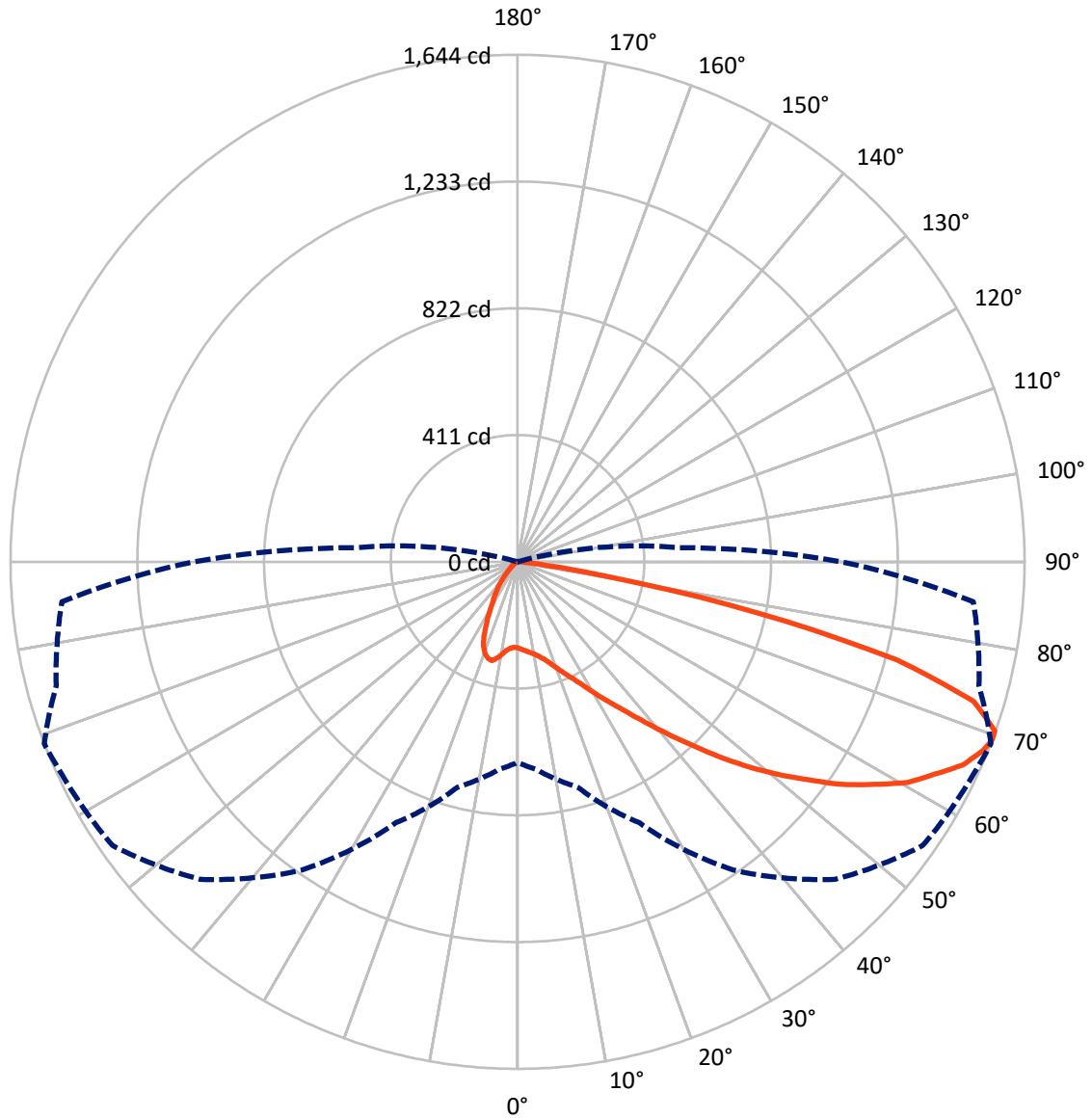
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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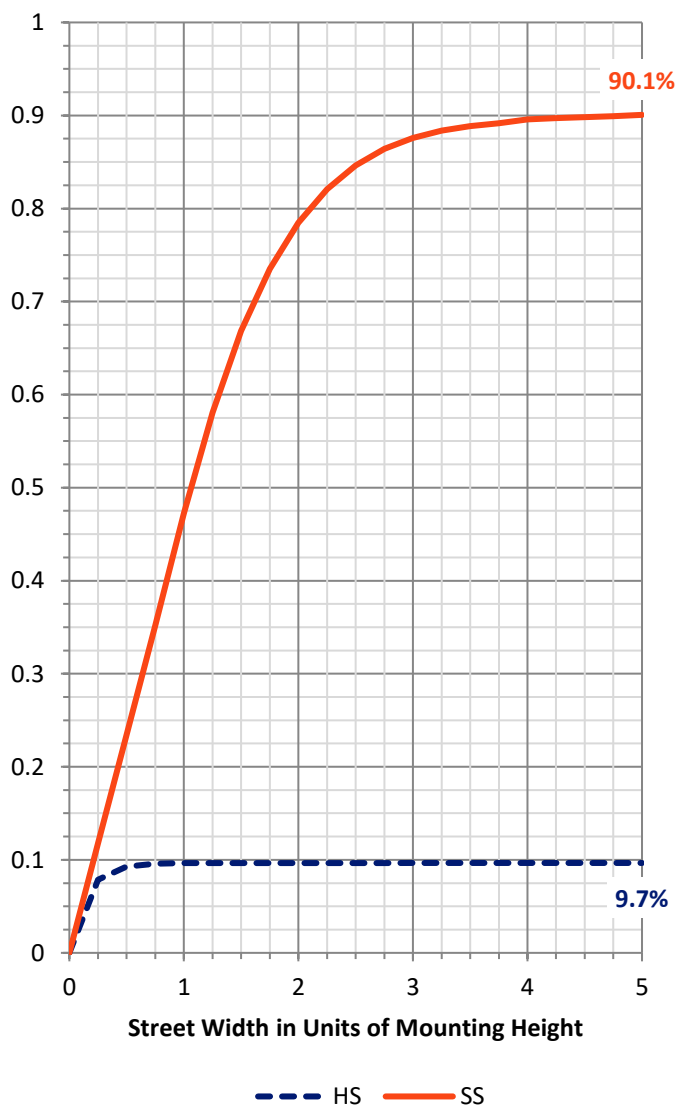
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.7	0.0	244.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2266.3	0.0	2266.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	2511.0	0.0	2511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	1.1
10°-20°	70.5	2.8
20°-30°	117.3	4.7
30°-40°	211.2	8.4
40°-50°	383.0	15.3
50°-60°	598.5	23.8
60°-70°	692.5	27.6
70°-80°	387.2	15.4
80°-90°	24.2	1.0
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°	2511.0	100.0
0°-180°	2511.0	100.0

Coefficient of Utilization

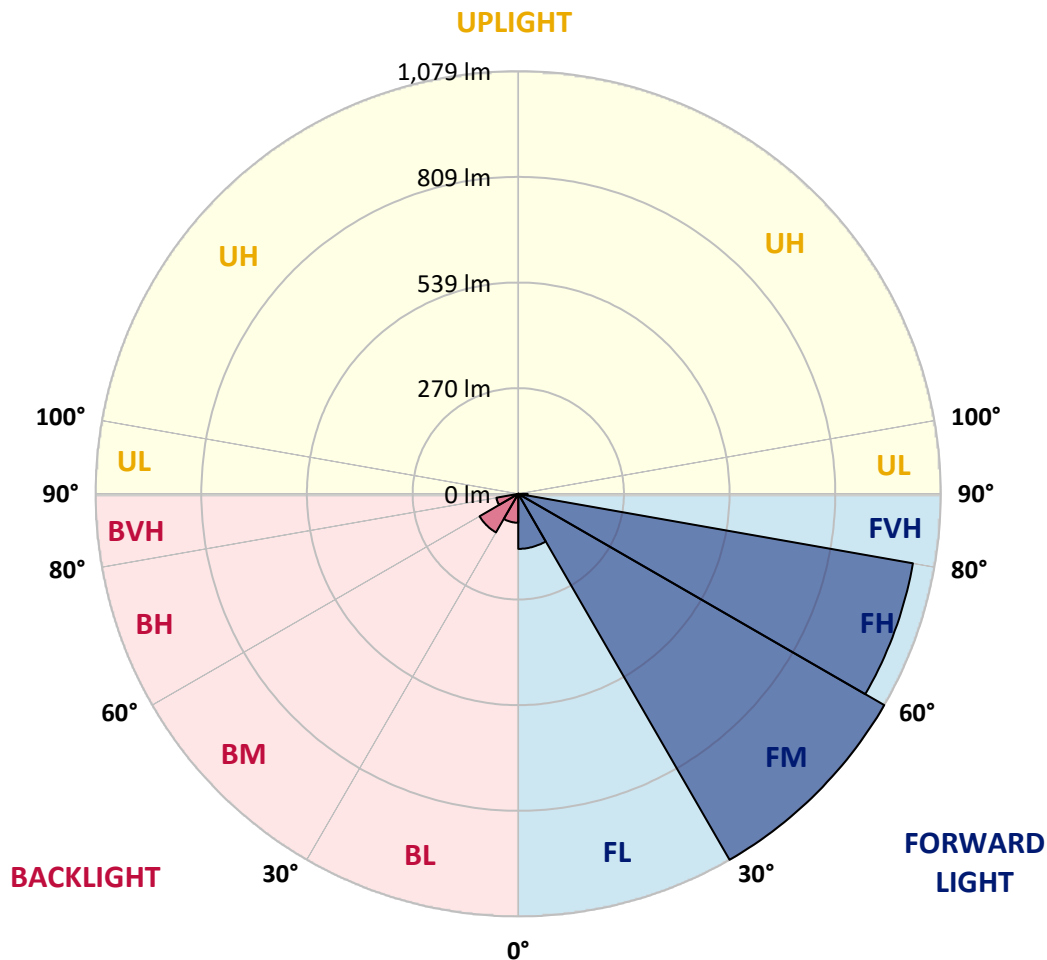


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	140.5	5.6			
FM (30°-60°)	1078.8	43.0			
FH (60°-80°)	1023.0	40.7			G1/1800
FVH (80°-90°)	24.0	1.0			G1/100
BL (0°-30°)	73.9	2.9	B0/110		
BM (30°-60°)	113.9	4.5	B0/220		
BH (60°-80°)	56.6	2.3	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3
2.5°	289.3	289.3	289.3	287.7	288.5	287.7	286.8	284.3	285.2	284.3	281.8
5°	279.3	280.1	282.7	284.3	288.5	290.2	291.0	291.0	290.2	288.5	286.8
7.5°	260.1	260.1	262.6	267.6	276.0	285.2	292.7	296.9	297.7	297.7	295.2
10°	255.1	255.1	258.4	261.7	270.1	281.0	292.7	302.7	304.4	306.1	305.2
12.5°	252.5	253.4	256.7	262.6	273.5	283.5	296.0	310.2	315.3	319.4	320.3
15°	255.9	255.9	259.2	265.1	277.6	291.9	307.7	323.6	328.6	334.5	338.7
17.5°	260.9	262.6	264.3	270.1	281.8	299.4	320.3	341.2	347.0	354.6	357.9
20°	269.3	269.3	270.9	276.0	288.5	309.4	338.7	363.8	368.8	373.8	378.0
22.5°	279.3	280.1	280.1	284.3	298.5	321.1	354.6	385.5	393.9	396.4	398.1
25°	309.4	307.7	301.9	299.4	310.2	334.5	373.8	411.4	420.6	423.1	419.8
27.5°	372.1	365.4	349.6	332.8	331.2	355.4	399.7	444.1	454.1	454.9	443.2
30°	450.7	451.6	425.7	389.7	365.4	378.0	428.2	485.0	495.1	490.9	472.5
32.5°	547.7	543.6	524.3	472.5	424.0	413.1	459.1	527.7	539.4	532.7	508.4
35°	630.5	633.0	609.6	563.6	502.6	467.5	496.7	575.3	589.6	577.9	547.7
37.5°	699.9	703.3	689.1	651.4	597.1	541.9	546.1	631.4	650.6	638.9	601.3
40°	776.9	779.4	773.5	732.6	684.1	630.5	612.1	695.8	721.7	705.8	666.5
42.5°	861.3	870.5	860.5	827.9	777.7	731.7	704.1	774.4	800.3	790.3	737.6
45°	976.7	977.6	965.9	933.3	881.4	843.8	810.3	858.0	891.4	878.9	817.0
47.5°	1062.0	1067.9	1061.2	1038.6	996.8	971.7	925.7	950.0	985.1	969.2	899.0
50°	1127.3	1143.2	1137.3	1144.0	1123.1	1112.2	1042.0	1045.3	1079.6	1066.2	982.6
52.5°	1163.2	1183.3	1185.0	1219.3	1236.8	1263.6	1154.9	1149.8	1171.6	1159.9	1067.9
55°	1158.2	1163.2	1205.0	1267.8	1336.3	1397.4	1265.3	1244.3	1274.4	1241.8	1158.2
57.5°	1109.7	1122.3	1195.8	1273.6	1394.9	1483.5	1360.6	1337.2	1362.3	1318.8	1251.0
60°	1040.3	1058.7	1153.2	1264.4	1429.2	1535.4	1453.4	1430.0	1452.6	1399.9	1356.4
62.5°	977.6	985.9	1072.9	1225.9	1409.1	1532.9	1525.3	1503.6	1517.0	1461.8	1446.7
65°	888.1	891.4	977.6	1156.5	1364.8	1516.1	1564.6	1573.0	1587.2	1513.6	1511.1
67.5°	750.1	757.6	842.9	1035.3	1291.2	1483.5	1595.6	1612.3	1629.0	1541.2	1522.8
69°	650.6	674.9	756.8	933.3	1220.1	1455.9	1603.9	1630.7	1644.1	1548.7	1483.5
70°	569.5	590.4	684.9	854.7	1157.4	1425.0	1609.8	1628.2	1641.6	1532.9	1419.1
72.5°	286.0	312.8	442.4	623.8	919.9	1283.6	1579.7	1559.6	1545.4	1409.9	1148.2
75°	110.4	114.6	189.8	355.4	575.3	942.5	1348.9	1311.2	1269.4	1069.6	680.7
77.5°	61.0	60.2	82.8	157.2	245.0	460.8	912.4	852.1	794.4	574.5	276.0
80°	25.9	27.6	36.0	75.3	128.8	159.7	443.2	393.9	313.6	182.3	66.1
82.5°	15.9	16.7	25.1	46.0	89.5	61.0	143.8	122.9	90.3	49.3	15.9
85°	5.0	5.9	17.6	30.9	43.5	25.1	32.6	28.4	25.1	20.9	5.0
87.5°	0.8	0.8	6.7	16.7	11.7	4.2	3.3	5.9	9.2	10.0	1.7
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°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3
2.5°	281.0	279.3	277.6	276.8	276.8	275.1	274.3	273.5	273.5	272.6	272.6
5°	284.3	282.7	281.0	280.1	278.5	277.6	277.6	277.6	276.8	277.6	278.5
7.5°	292.7	290.2	289.3	288.5	288.5	286.0	281.8	270.9	260.1	256.7	253.4
10°	304.4	303.6	303.6	303.6	297.7	276.0	245.9	219.1	204.9	193.2	193.2
12.5°	321.1	321.1	320.3	317.8	287.7	235.0	188.2	148.0	124.6	111.2	112.9
15°	339.5	338.7	340.4	324.5	253.4	181.5	113.7	80.3	67.7	66.1	66.1
17.5°	358.8	360.4	358.8	306.9	208.2	112.1	67.7	61.0	59.4	59.4	59.4
20°	378.8	377.1	374.6	276.8	151.4	70.2	58.5	56.9	55.2	54.4	54.4
22.5°	398.9	397.2	380.5	238.3	94.5	57.7	55.2	51.8	49.3	48.5	48.5
25°	418.1	418.1	369.6	189.0	64.4	54.4	50.2	46.8	44.3	41.8	41.8
27.5°	442.4	444.1	352.1	132.1	54.4	50.2	45.2	40.1	36.8	35.1	35.1
30°	470.0	472.5	323.6	86.1	49.3	44.3	39.3	33.5	28.4	26.8	25.9
32.5°	502.6	505.1	291.0	56.9	44.3	38.5	32.6	25.1	20.1	19.2	18.4
35°	544.4	538.5	251.7	45.2	38.5	32.6	25.1	17.6	14.2	13.4	13.4
37.5°	596.2	583.7	206.6	39.3	32.6	25.9	18.4	11.7	9.2	9.2	8.4
40°	655.6	620.5	159.7	35.1	27.6	20.1	11.7	7.5	5.9	5.9	5.9
42.5°	720.8	651.4	113.7	30.9	22.6	14.2	7.5	4.2	3.3	3.3	3.3
45°	796.1	679.9	77.8	26.8	19.2	10.0	4.2	1.7	1.7	1.7	1.7
47.5°	871.4	698.3	51.8	23.4	14.2	5.9	2.5	0.8	0.8	0.8	0.8
50°	947.5	712.5	40.1	20.1	10.0	3.3	0.8	0.0	0.0	0.0	0.0
52.5°	1015.2	722.5	32.6	16.7	6.7	2.5	0.8	0.0	0.0	0.0	0.0
55°	1073.7	723.4	28.4	13.4	5.0	1.7	0.0	0.0	0.0	0.0	0.0
57.5°	1133.1	716.7	24.3	10.0	3.3	0.8	0.0	0.0	0.0	0.0	0.0
60°	1169.1	699.1	19.2	7.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0
62.5°	1190.8	669.8	15.1	5.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0
65°	1178.3	633.0	10.9	3.3	1.7	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1119.7	576.2	7.5	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0
69°	1050.3	524.3	6.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
70°	989.3	484.2	5.9	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	736.7	311.9	5.0	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	413.9	104.5	3.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	155.5	26.8	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.3	6.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)