

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: P594994

Luminaire Tested: **IST-PA1A-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

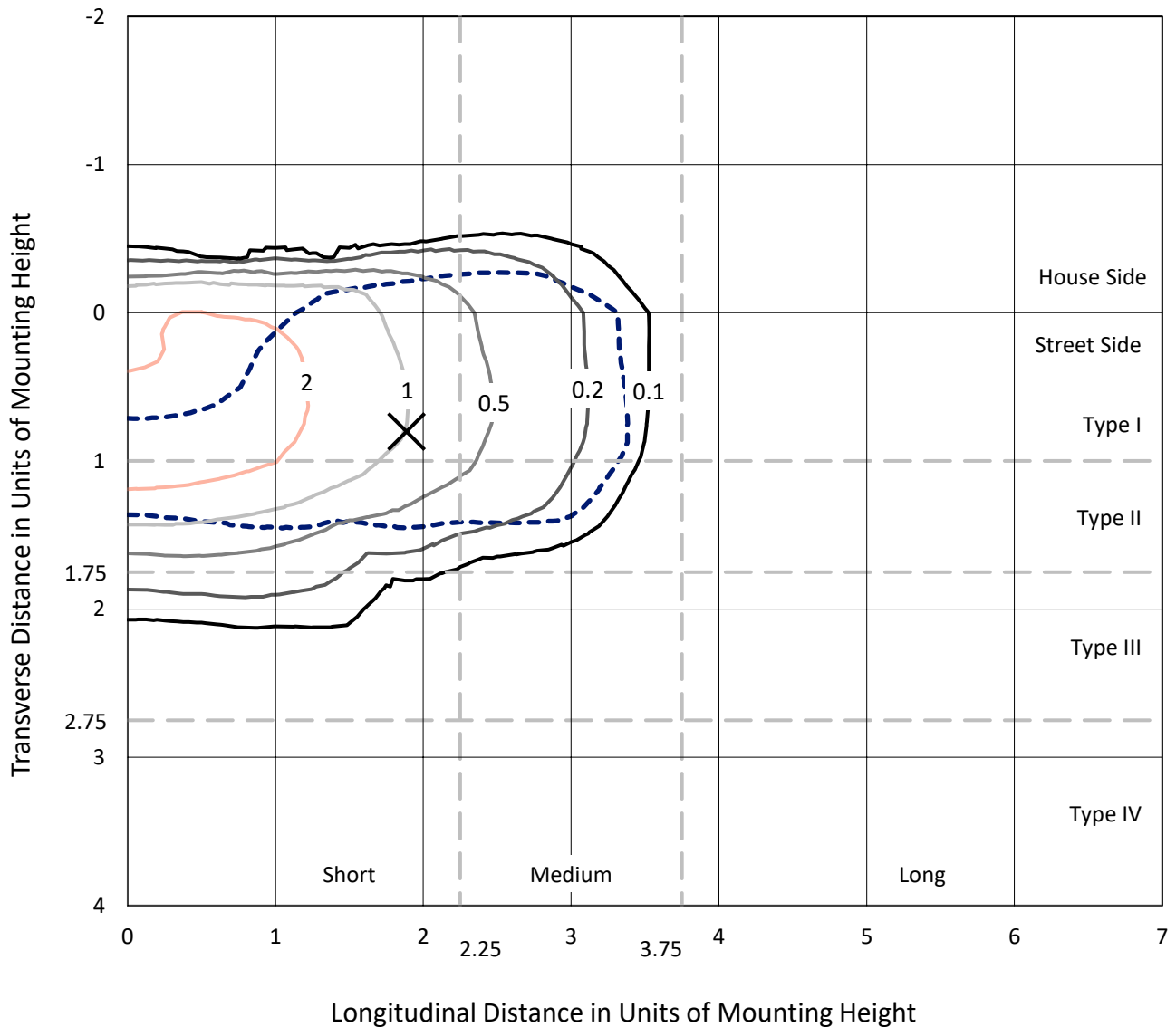
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

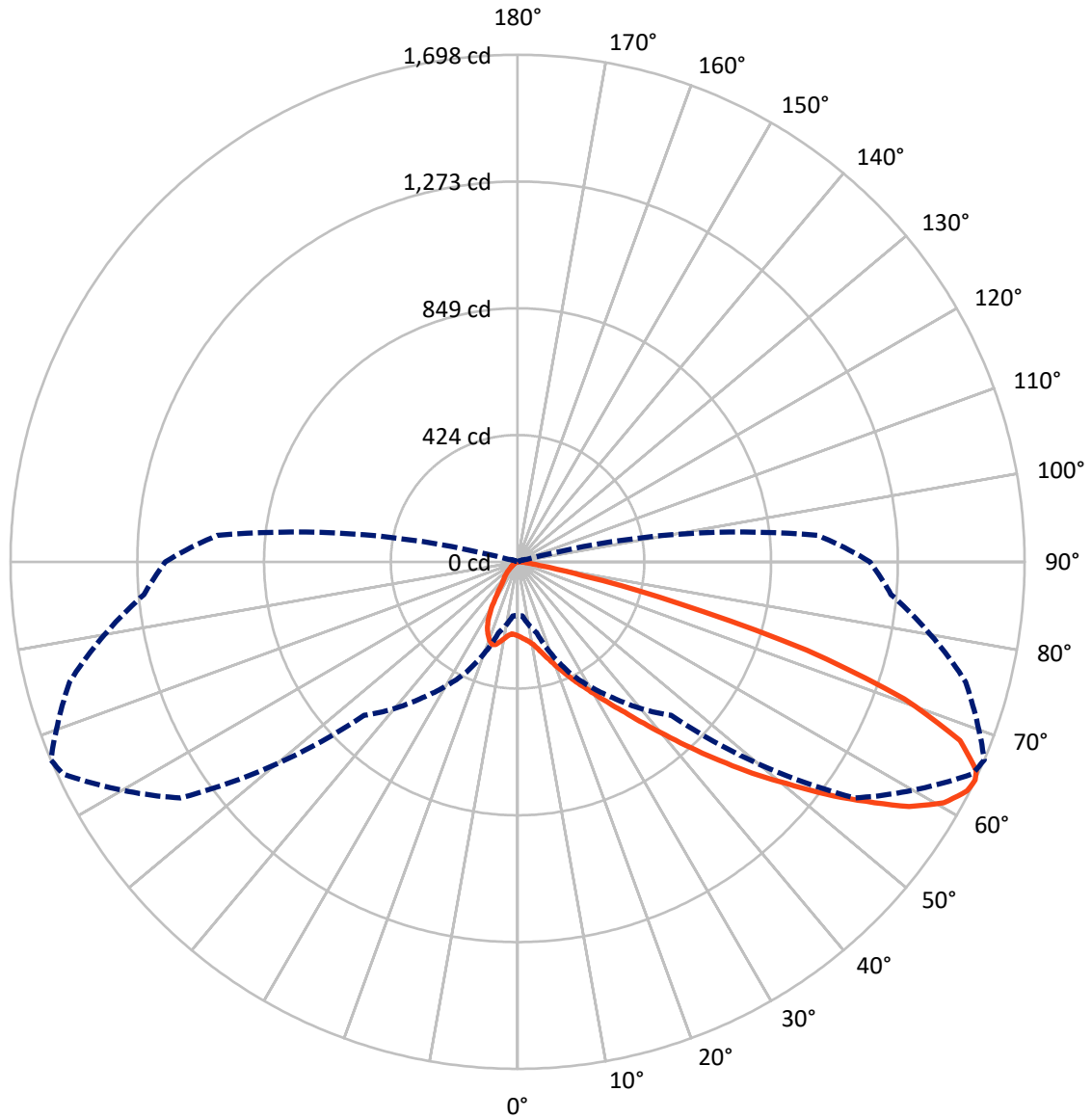
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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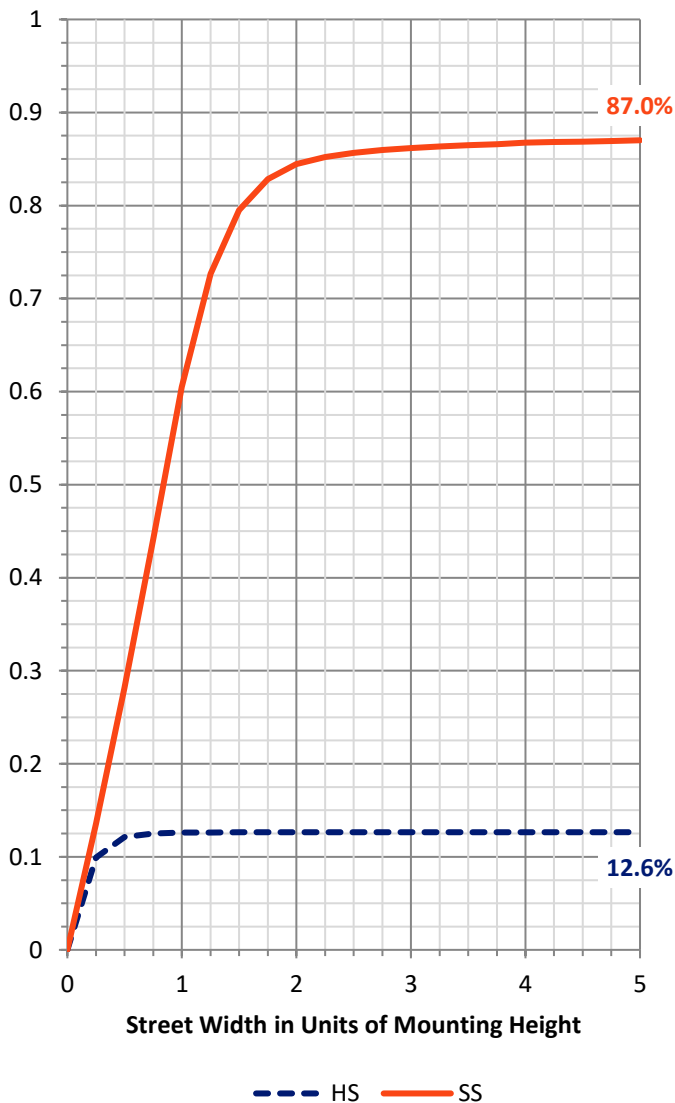
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	273.5	0.0	273.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1864.5	0.0	1864.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	2138.0	0.0	2138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	1.1
10°-20°	69.6	3.3
20°-30°	126.2	5.9
30°-40°	241.8	11.3
40°-50°	445.6	20.8
50°-60°	575.5	26.9
60°-70°	471.4	22.0
70°-80°	173.3	8.1
80°-90°	11.2	0.5
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°	2138.0	100.0
0°-180°	2138.0	100.0

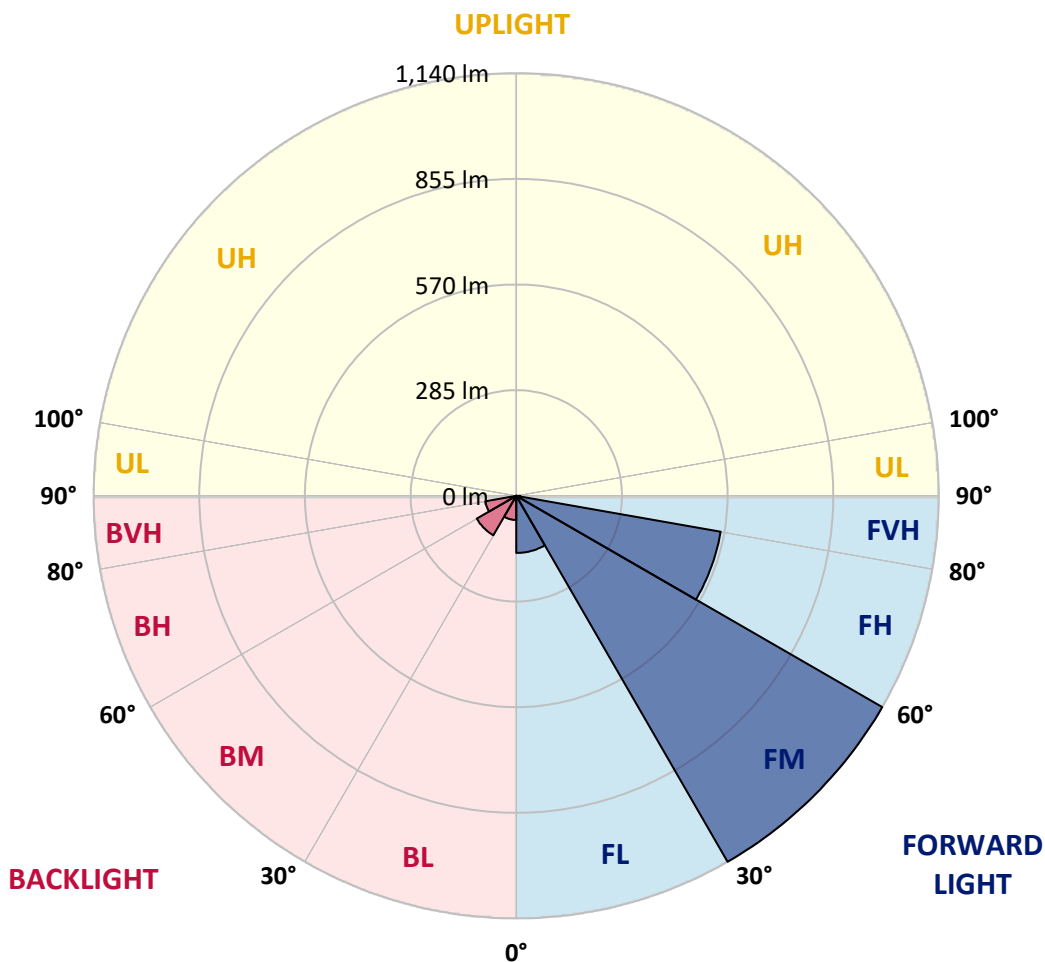


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.1	7.2			
FM (30°-60°)	1139.9	53.3			
FH (60°-80°)	559.8	26.2			G0/660
FVH (80°-90°)	10.7	0.5			G1/100
BL (0°-30°)	65.2	3.0	B0/110		
BM (30°-60°)	123.0	5.8	B0/220		
BH (60°-80°)	84.8	4.0	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4
2.5°	257.2	257.2	258.7	258.0	258.0	256.5	254.3	255.0	254.3	253.6	251.4
5°	252.8	253.6	254.3	255.8	258.7	260.2	260.2	260.9	260.9	260.2	257.2
7.5°	250.6	252.1	253.6	255.0	258.7	260.9	264.6	269.0	269.0	269.7	266.8
10°	258.7	260.2	262.4	264.6	268.3	271.9	274.9	280.0	280.0	281.5	280.8
12.5°	275.6	275.6	276.4	277.8	283.0	287.4	292.5	296.9	297.7	298.4	296.2
15°	296.2	296.2	296.9	296.9	299.9	306.5	316.0	320.5	319.7	319.0	314.6
17.5°	319.7	319.7	319.7	320.5	321.9	325.6	336.6	345.4	344.7	344.0	335.2
20°	341.8	343.2	344.7	345.4	346.9	349.9	361.6	371.9	374.1	371.2	355.7
22.5°	366.8	367.5	368.2	370.4	374.1	375.6	387.3	402.8	405.0	401.3	380.7
25°	391.7	393.2	395.4	398.4	402.0	409.4	417.5	438.1	440.3	435.8	407.9
27.5°	446.9	446.1	439.5	434.4	435.1	440.3	451.3	473.3	475.5	471.1	435.1
30°	540.9	532.1	519.6	496.9	474.8	477.0	492.4	513.8	517.4	511.5	465.2
32.5°	674.7	665.9	635.0	585.0	536.5	520.4	540.2	560.8	565.2	558.6	500.5
35°	804.8	802.6	773.2	712.9	630.6	585.8	590.9	617.4	618.9	610.8	544.6
37.5°	965.8	957.7	917.3	849.6	752.6	672.5	657.8	682.8	686.5	676.9	598.3
40°	1072.3	1069.4	1045.1	997.4	893.0	792.3	739.4	763.6	762.9	749.0	660.0
42.5°	1134.1	1135.6	1134.1	1111.3	1051.8	936.4	847.4	848.9	851.1	836.4	731.3
45°	1176.0	1176.0	1178.2	1196.6	1173.8	1108.4	979.0	945.9	948.9	926.1	805.5
47.5°	1175.2	1179.7	1191.4	1234.0	1264.9	1268.6	1143.6	1059.1	1057.6	1023.1	882.0
50°	1095.9	1092.9	1141.4	1237.0	1329.6	1400.9	1299.5	1178.9	1166.4	1123.8	961.4
52.5°	917.3	926.8	1007.7	1148.0	1345.0	1490.6	1434.0	1309.7	1293.6	1223.8	1031.2
55°	761.4	771.7	850.4	987.8	1261.2	1522.2	1524.4	1448.7	1416.3	1310.5	1103.2
57.5°	571.8	591.7	707.8	837.1	1077.5	1443.5	1556.7	1581.7	1546.4	1394.3	1162.0
60°	365.3	377.0	507.1	666.6	873.2	1237.7	1550.1	1658.9	1639.8	1470.7	1211.3
62.5°	238.9	245.5	335.2	502.0	665.2	932.7	1471.4	1689.7	1689.7	1522.2	1248.0
64°	180.1	181.5	245.5	407.9	554.9	726.9	1378.8	1680.2	1697.8	1553.0	1255.4
65°	142.6	143.3	191.8	338.8	498.3	596.1	1298.0	1659.6	1688.3	1564.8	1259.8
67.5°	100.0	102.2	124.2	195.5	357.2	344.0	962.1	1562.6	1597.9	1568.5	1253.9
70°	86.7	89.7	104.4	127.9	255.0	199.9	511.5	1331.8	1373.7	1461.2	1167.2
72.5°	66.1	69.8	87.5	108.0	179.3	135.2	197.7	945.9	1012.1	1129.7	963.6
75°	47.8	49.2	64.7	88.2	125.7	104.4	85.3	488.0	554.9	666.6	599.0
77.5°	30.1	32.3	44.1	66.1	112.5	79.4	50.7	177.9	224.2	290.3	261.7
80°	17.6	18.4	26.5	45.6	75.7	58.8	32.3	63.2	76.4	108.0	69.8
82.5°	10.3	11.0	16.9	30.9	49.2	45.6	20.6	32.3	36.0	41.2	14.7
85°	3.7	3.7	11.8	18.4	26.5	22.8	11.8	16.9	18.4	22.8	4.4
87.5°	0.7	0.7	5.9	9.6	9.6	3.7	5.9	7.3	8.8	12.5	1.5
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°	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4
2.5°	250.6	248.4	246.2	243.3	241.1	236.7	234.5	231.5	230.8	229.3	228.6
5°	256.5	252.8	247.7	240.3	235.9	229.3	224.9	220.5	219.8	218.3	217.6
7.5°	264.6	260.9	254.3	246.2	238.9	232.3	227.1	220.5	213.9	208.7	208.7
10°	277.8	273.4	264.6	257.2	248.4	234.5	210.2	188.2	174.2	165.4	162.4
12.5°	294.0	288.1	278.6	269.7	252.8	208.7	171.3	142.6	119.1	108.0	105.8
15°	310.9	305.8	296.2	283.0	232.3	174.2	124.9	80.8	58.1	47.8	49.2
17.5°	329.3	321.9	310.9	284.4	204.3	130.1	66.9	41.2	35.3	33.8	33.8
20°	348.4	338.8	327.8	268.3	168.3	75.0	38.2	30.9	28.7	26.5	27.2
22.5°	369.0	357.2	340.3	244.0	120.5	40.4	29.4	25.0	22.0	21.3	21.3
25°	391.0	374.1	352.8	216.1	69.8	30.9	24.3	19.8	17.6	16.9	16.2
27.5°	414.5	393.2	355.7	179.3	39.7	25.7	19.1	15.4	13.2	12.5	12.5
30°	435.8	412.3	349.1	133.0	30.1	21.3	15.4	11.8	10.3	10.3	10.3
32.5°	464.5	433.6	328.5	83.1	24.3	16.9	11.8	9.6	8.1	8.1	8.1
35°	502.0	465.2	308.0	44.1	19.8	14.0	9.6	7.3	6.6	6.6	6.6
37.5°	553.4	507.1	289.6	27.9	16.2	11.0	7.3	5.9	5.1	5.1	5.1
40°	606.4	557.1	263.9	21.3	13.2	8.8	5.9	4.4	3.7	3.7	4.4
42.5°	672.5	615.2	234.5	18.4	11.0	7.3	4.4	2.9	2.2	2.9	2.9
45°	739.4	676.2	193.3	15.4	9.6	5.9	2.9	1.5	1.5	2.2	2.2
47.5°	808.5	740.9	149.9	13.2	8.1	4.4	2.2	0.7	0.7	1.5	1.5
50°	879.8	804.8	111.7	11.8	6.6	3.7	1.5	0.7	0.0	0.7	0.7
52.5°	951.1	866.5	86.7	10.3	5.9	2.9	0.7	0.0	0.0	0.0	0.7
55°	1017.2	922.4	69.1	8.8	5.1	2.2	0.7	0.0	0.0	0.0	0.0
57.5°	1073.1	963.6	55.1	8.1	4.4	1.5	0.7	0.0	0.0	0.0	0.0
60°	1126.0	995.9	42.6	6.6	3.7	1.5	0.7	0.0	0.0	0.0	0.0
62.5°	1163.5	1008.4	34.5	5.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0
64°	1179.7	1009.9	30.1	5.1	2.9	1.5	0.7	0.0	0.0	0.0	0.0
65°	1189.2	1005.5	27.9	5.1	2.9	1.5	0.7	0.0	0.0	0.0	0.0
67.5°	1191.4	981.2	21.3	4.4	2.2	0.7	0.7	0.0	0.0	0.0	0.0
70°	1126.7	896.7	15.4	2.9	1.5	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	941.5	685.0	10.3	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0
75°	588.0	296.2	5.9	2.2	0.7	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	243.3	89.7	3.7	1.5	0.7	0.7	0.0	0.0	0.0	0.0	0.0
80°	55.9	21.3	1.5	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	3.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	2.9	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	0.7	0.7	0.7	0.7	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)