

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: P594996

Luminaire Tested: **IST-PA1A-827-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594996
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-827-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 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: 2208 lumens
Efficiency: N/A
Efficacy: 76.7 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

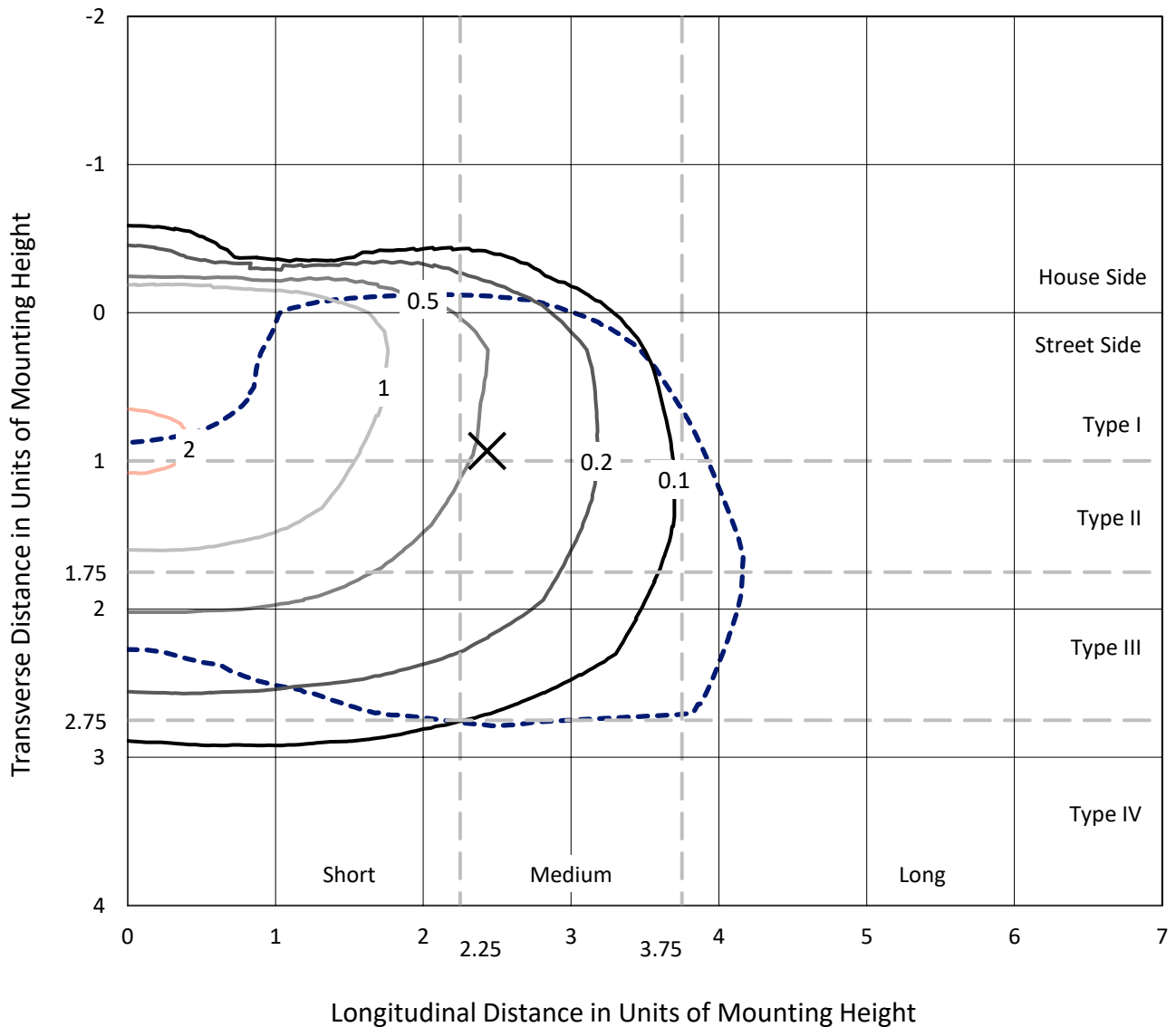
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

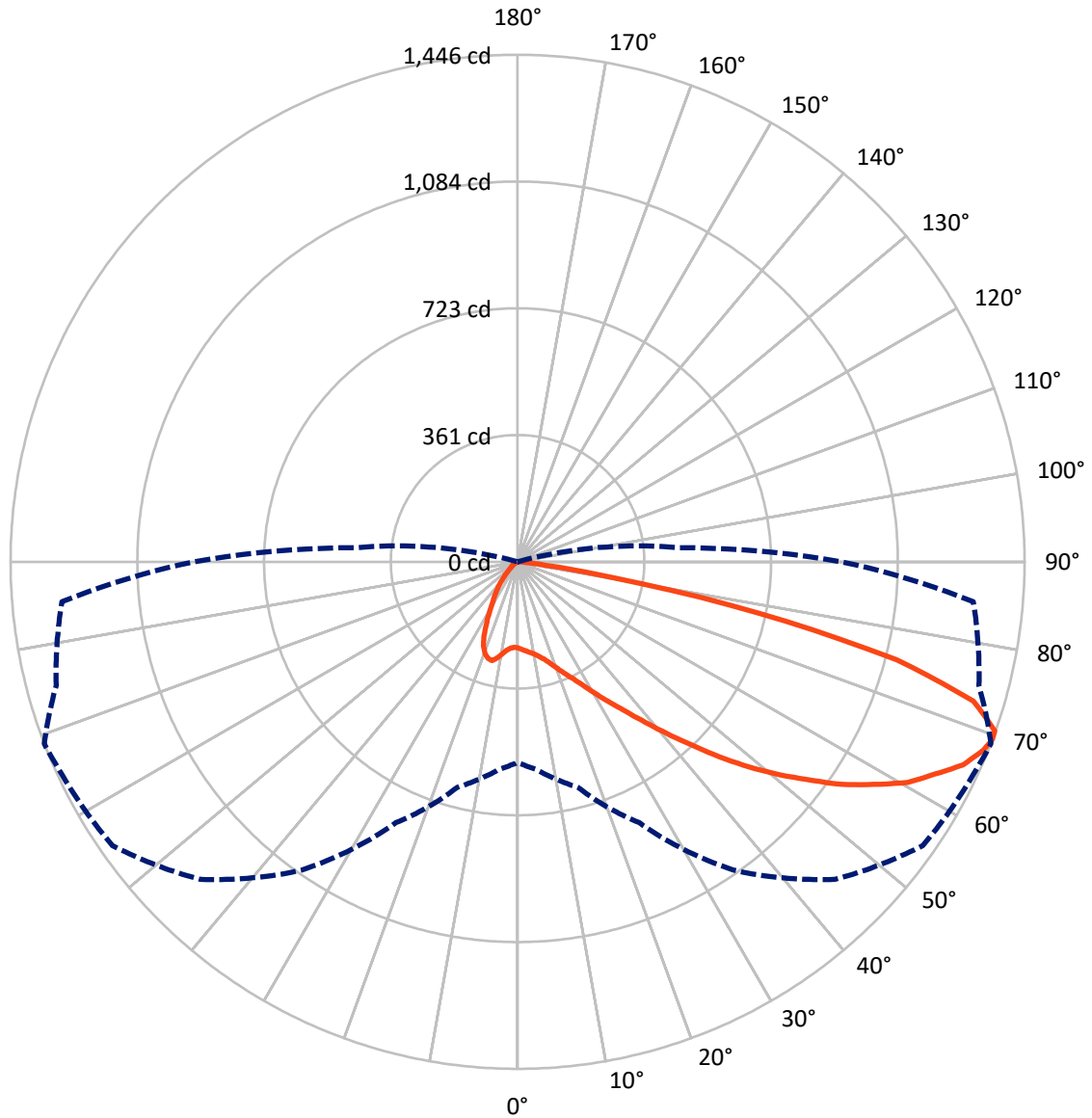
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.1 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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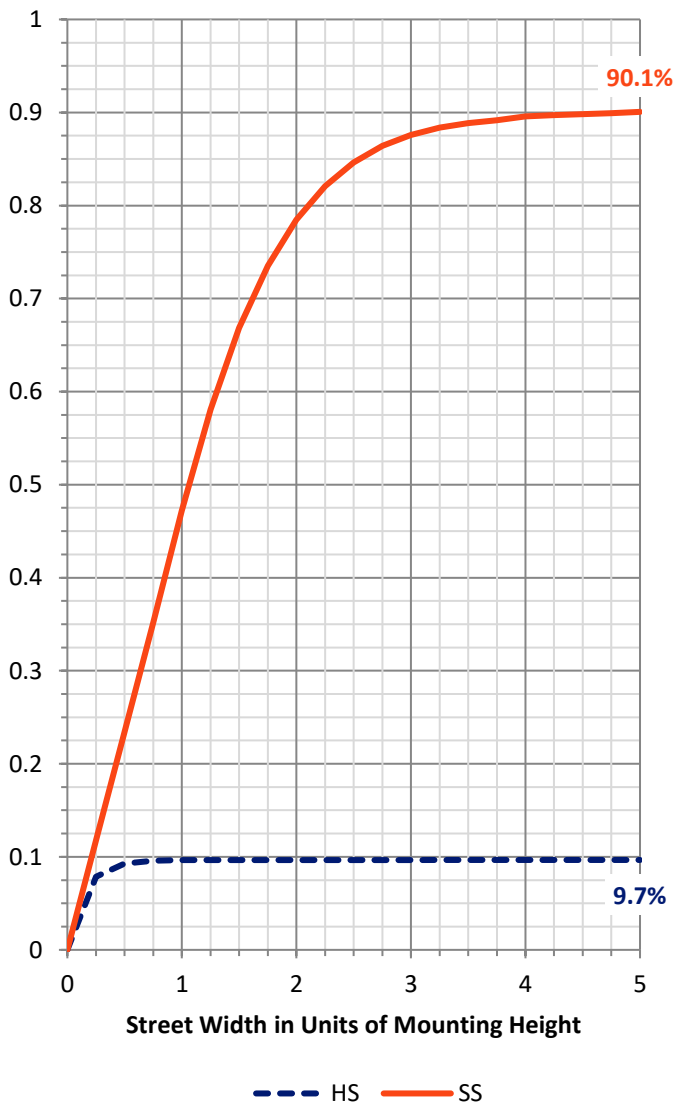
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	215.1	0.0	215.1
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	1992.8	0.0	1992.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	2208.0	0.0	2208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	1.1
10°-20°	62.0	2.8
20°-30°	103.2	4.7
30°-40°	185.7	8.4
40°-50°	336.8	15.3
50°-60°	526.3	23.8
60°-70°	608.9	27.6
70°-80°	340.5	15.4
80°-90°	21.3	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°	2208.0	100.0
0°-180°	2208.0	100.0

Coefficient of Utilization

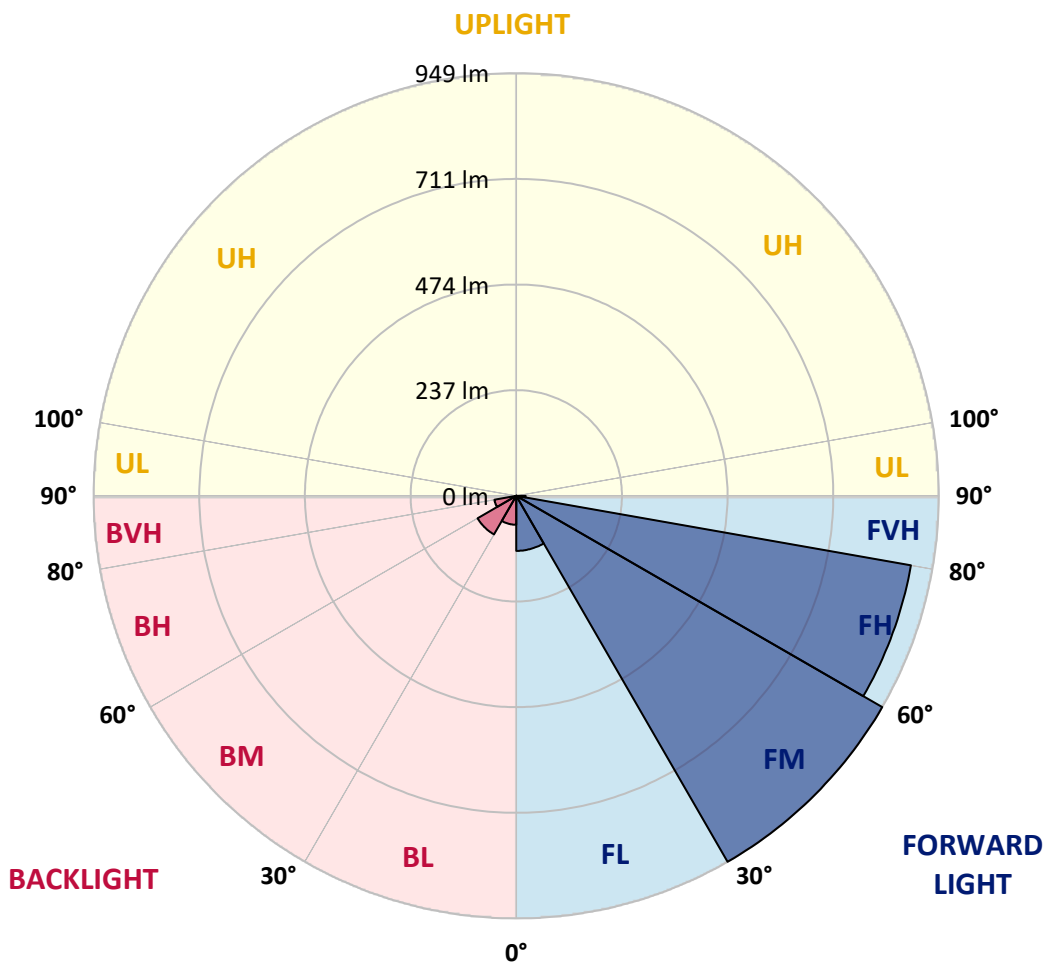


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	123.5	5.6			
FM (30°-60°)	948.6	43.0			
FH (60°-80°)	899.6	40.7			G1/1800
FVH (80°-90°)	21.1	1.0			G1/100
BL (0°-30°)	65.0	2.9	B0/110		
BM (30°-60°)	100.2	4.5	B0/220		
BH (60°-80°)	49.8	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°	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6
2.5°	254.4	254.4	254.4	253.0	253.7	253.0	252.2	250.0	250.8	250.0	247.8
5°	245.6	246.3	248.5	250.0	253.7	255.2	255.9	255.9	255.2	253.7	252.2
7.5°	228.7	228.7	230.9	235.3	242.7	250.8	257.4	261.0	261.8	261.8	259.6
10°	224.3	224.3	227.2	230.2	237.5	247.1	257.4	266.2	267.7	269.1	268.4
12.5°	222.1	222.8	225.8	230.9	240.5	249.3	260.3	272.8	277.2	280.9	281.6
15°	225.0	225.0	228.0	233.1	244.1	256.6	270.6	284.6	289.0	294.1	297.8
17.5°	229.4	230.9	232.4	237.5	247.8	263.3	281.6	300.0	305.2	311.8	314.7
20°	236.8	236.8	238.3	242.7	253.7	272.1	297.8	319.9	324.3	328.7	332.4
22.5°	245.6	246.3	246.3	250.0	262.5	282.4	311.8	339.0	346.3	348.6	350.0
25°	272.1	270.6	265.5	263.3	272.8	294.1	328.7	361.8	369.9	372.1	369.1
27.5°	327.2	321.3	307.4	292.7	291.2	312.5	351.5	390.5	399.3	400.0	389.7
30°	396.3	397.1	374.3	342.7	321.3	332.4	376.5	426.5	435.3	431.6	415.5
32.5°	481.6	478.0	461.1	415.5	372.8	363.3	403.7	464.0	474.3	468.4	447.1
35°	554.4	556.7	536.1	495.6	441.9	411.1	436.8	505.9	518.4	508.1	481.6
37.5°	615.5	618.4	605.9	572.8	525.0	476.5	480.2	555.2	572.1	561.8	528.7
40°	683.1	685.3	680.2	644.2	601.5	554.4	538.3	611.8	634.6	620.6	586.1
42.5°	757.4	765.5	756.7	728.0	683.9	643.4	619.2	680.9	703.7	694.9	648.6
45°	858.9	859.6	849.3	820.6	775.1	742.0	712.5	754.5	783.9	772.8	718.4
47.5°	933.9	939.0	933.1	913.3	876.5	854.5	814.0	835.3	866.2	852.3	790.5
50°	991.2	1005.2	1000.1	1005.9	987.6	978.0	916.2	919.2	949.3	937.6	864.0
52.5°	1022.9	1040.5	1042.0	1072.1	1087.6	1111.1	1015.5	1011.1	1030.2	1019.9	939.0
55°	1018.4	1022.9	1059.6	1114.8	1175.1	1228.8	1112.6	1094.2	1120.7	1092.0	1018.4
57.5°	975.8	986.8	1051.5	1119.9	1226.6	1304.5	1196.4	1175.8	1197.9	1159.6	1100.1
60°	914.8	930.9	1014.0	1111.8	1256.7	1350.1	1278.0	1257.4	1277.3	1231.0	1192.7
62.5°	859.6	867.0	943.4	1078.0	1239.1	1347.9	1341.3	1322.1	1333.9	1285.4	1272.1
65°	780.9	783.9	859.6	1017.0	1200.1	1333.2	1375.8	1383.2	1395.7	1331.0	1328.8
67.5°	659.6	666.2	741.2	910.4	1135.4	1304.5	1403.0	1417.7	1432.4	1355.2	1339.1
69°	572.1	593.4	665.5	820.6	1072.9	1280.2	1410.4	1433.9	1445.7	1361.9	1304.5
70°	500.8	519.2	602.2	751.5	1017.7	1253.0	1415.5	1431.7	1443.5	1347.9	1247.9
72.5°	251.5	275.0	389.0	548.6	808.9	1128.8	1389.1	1371.4	1358.9	1239.8	1009.6
75°	97.1	100.7	166.9	312.5	505.9	828.7	1186.1	1153.0	1116.3	940.5	598.6
77.5°	53.7	52.9	72.8	138.2	215.5	405.2	802.3	749.3	698.6	505.2	242.7
80°	22.8	24.3	31.6	66.2	113.2	140.5	389.7	346.3	275.8	160.3	58.1
82.5°	14.0	14.7	22.1	40.4	78.7	53.7	126.5	108.1	79.4	43.4	14.0
85°	4.4	5.1	15.4	27.2	38.2	22.1	28.7	25.0	22.1	18.4	4.4
87.5°	0.7	0.7	5.9	14.7	10.3	3.7	2.9	5.1	8.1	8.8	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°	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6	245.6
2.5°	247.1	245.6	244.1	243.4	243.4	241.9	241.2	240.5	240.5	239.7	239.7
5°	250.0	248.5	247.1	246.3	244.9	244.1	244.1	244.1	243.4	244.1	244.9
7.5°	257.4	255.2	254.4	253.7	253.7	251.5	247.8	238.3	228.7	225.8	222.8
10°	267.7	266.9	266.9	266.9	261.8	242.7	216.2	192.7	180.2	169.9	169.9
12.5°	282.4	282.4	281.6	279.4	253.0	206.6	165.5	130.2	109.6	97.8	99.3
15°	298.5	297.8	299.3	285.3	222.8	159.6	100.0	70.6	59.6	58.1	58.1
17.5°	315.5	316.9	315.5	269.9	183.1	98.5	59.6	53.7	52.2	52.2	52.2
20°	333.1	331.6	329.4	243.4	133.1	61.8	51.5	50.0	48.5	47.8	47.8
22.5°	350.8	349.3	334.6	209.6	83.1	50.7	48.5	45.6	43.4	42.6	42.6
25°	367.7	367.7	325.0	166.2	56.6	47.8	44.1	41.2	39.0	36.8	36.8
27.5°	389.0	390.5	309.6	116.2	47.8	44.1	39.7	35.3	32.4	30.9	30.9
30°	413.3	415.5	284.6	75.7	43.4	39.0	34.6	29.4	25.0	23.5	22.8
32.5°	441.9	444.1	255.9	50.0	39.0	33.8	28.7	22.1	17.6	16.9	16.2
35°	478.7	473.6	221.3	39.7	33.8	28.7	22.1	15.4	12.5	11.8	11.8
37.5°	524.3	513.3	181.6	34.6	28.7	22.8	16.2	10.3	8.1	8.1	7.4
40°	576.5	545.6	140.5	30.9	24.3	17.6	10.3	6.6	5.1	5.1	5.1
42.5°	633.9	572.8	100.0	27.2	19.9	12.5	6.6	3.7	2.9	2.9	2.9
45°	700.0	597.8	68.4	23.5	16.9	8.8	3.7	1.5	1.5	1.5	1.5
47.5°	766.2	614.0	45.6	20.6	12.5	5.1	2.2	0.7	0.7	0.7	0.7
50°	833.1	626.5	35.3	17.6	8.8	2.9	0.7	0.0	0.0	0.0	0.0
52.5°	892.7	635.3	28.7	14.7	5.9	2.2	0.7	0.0	0.0	0.0	0.0
55°	944.2	636.1	25.0	11.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
57.5°	996.4	630.2	21.3	8.8	2.9	0.7	0.0	0.0	0.0	0.0	0.0
60°	1028.0	614.7	16.9	6.6	2.2	0.7	0.0	0.0	0.0	0.0	0.0
62.5°	1047.1	589.0	13.2	4.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0
65°	1036.1	556.7	9.6	2.9	1.5	0.7	0.0	0.0	0.0	0.0	0.0
67.5°	984.6	506.7	6.6	2.2	0.7	0.7	0.0	0.0	0.0	0.0	0.0
69°	923.6	461.1	5.9	1.5	0.7	0.7	0.0	0.0	0.0	0.0	0.0
70°	869.9	425.8	5.1	1.5	0.7	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	647.8	274.3	4.4	1.5	0.7	0.7	0.0	0.0	0.0	0.0	0.0
75°	364.0	91.9	2.9	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	136.8	23.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.1	5.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)