

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: P594449

Luminaire Tested: **ISS-PA1A-727-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-727-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2647 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

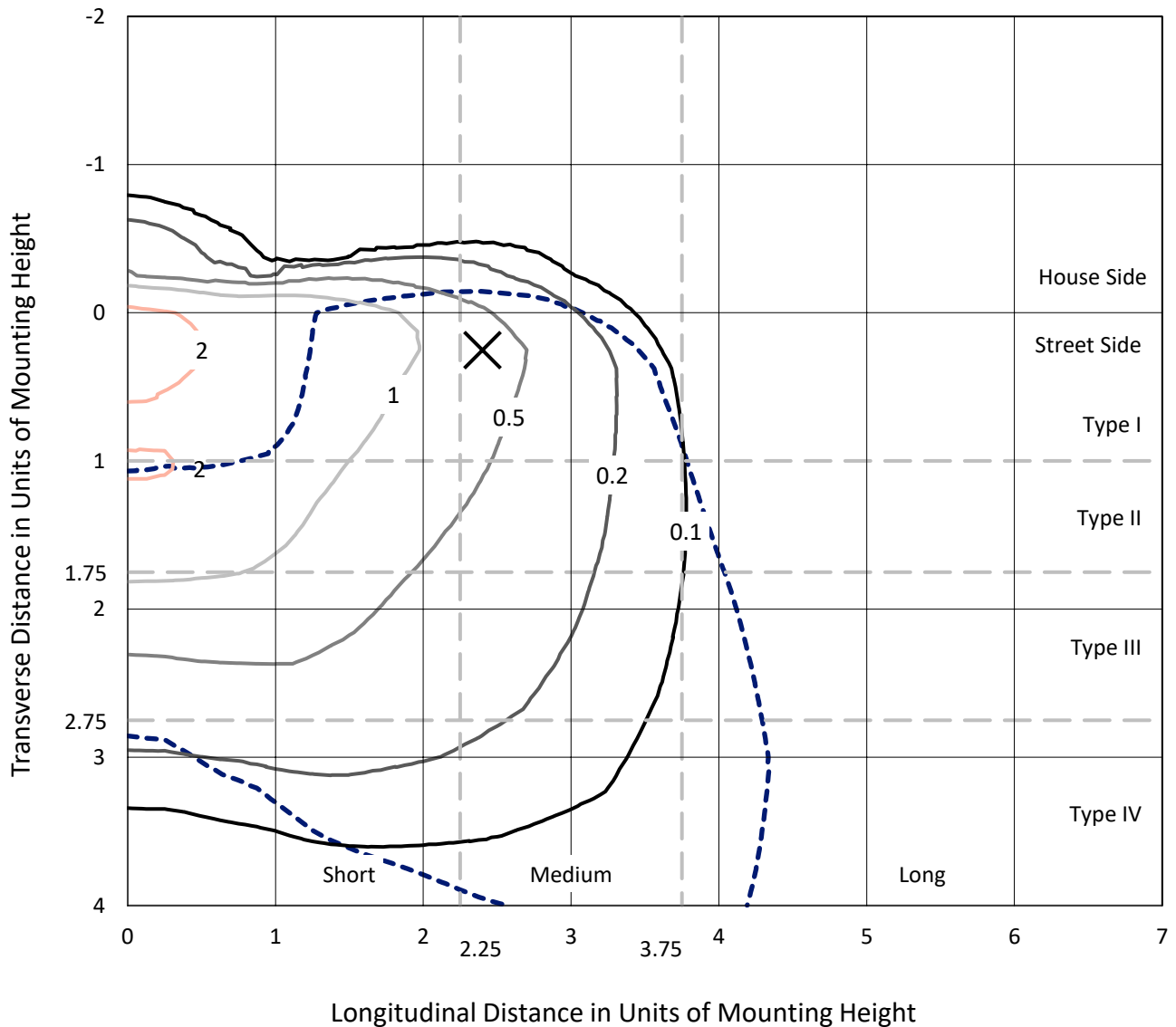
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

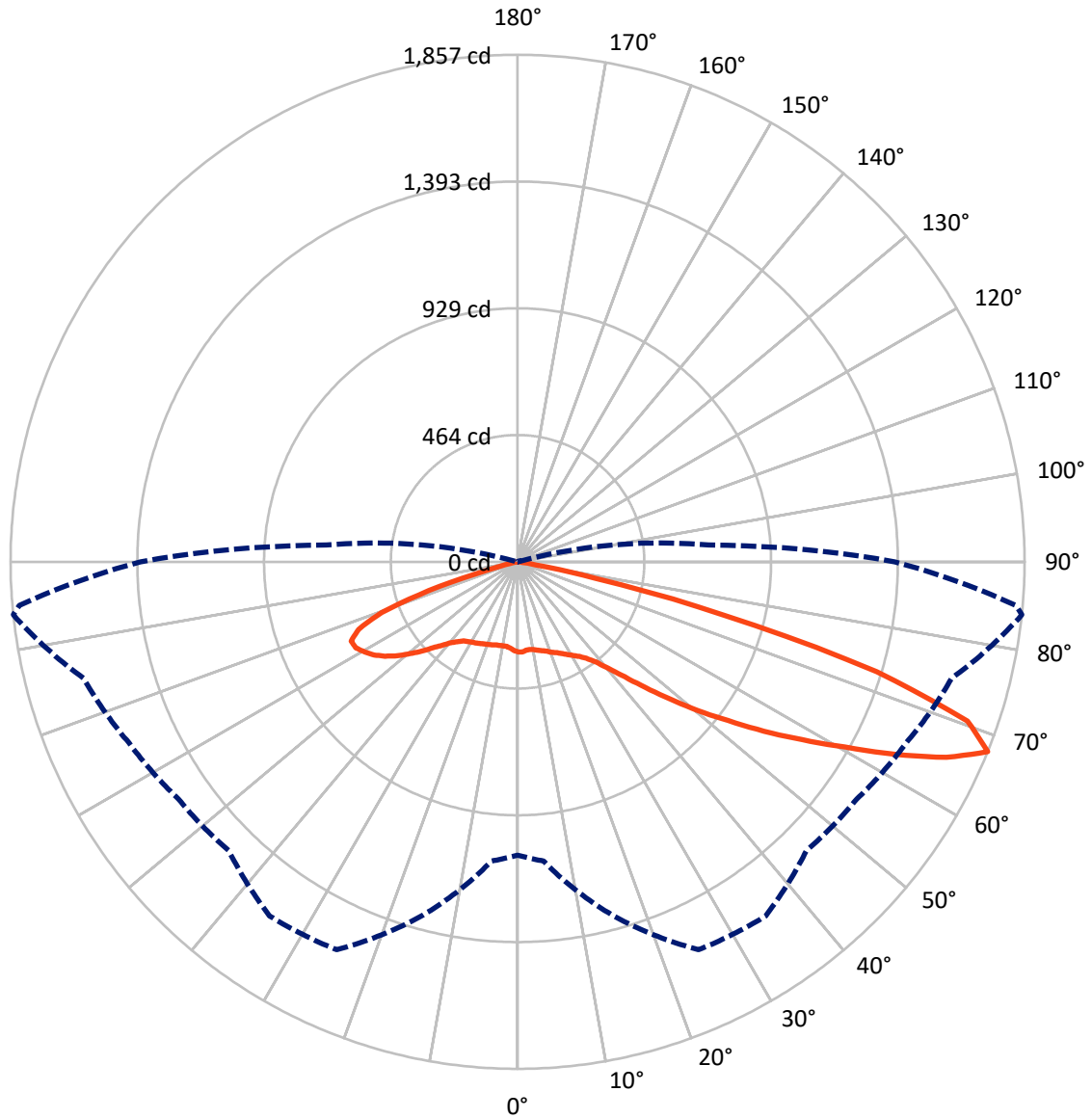
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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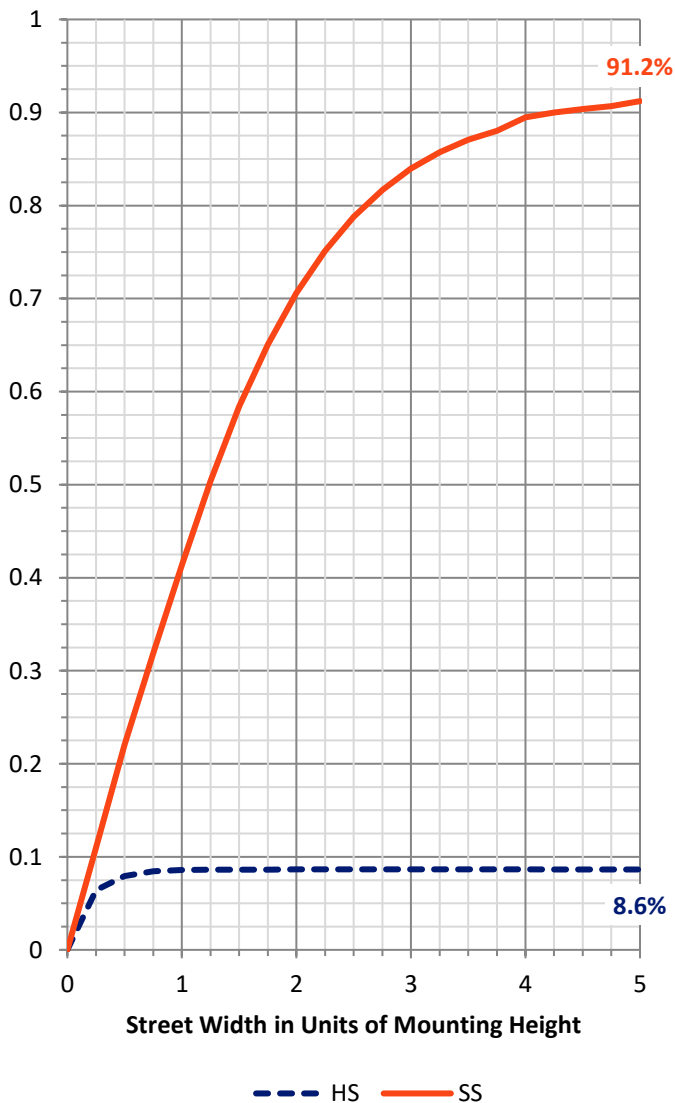
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	230.5	0.0	230.5
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2416.5	0.0	2416.5
	% Fixture	91.3	0.0	91.3
Total	Lumens	2647.0	0.0	2647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	1.1
10°-20°	77.3	2.9
20°-30°	123.9	4.7
30°-40°	178.3	6.7
40°-50°	306.0	11.6
50°-60°	534.6	20.2
60°-70°	765.5	28.9
70°-80°	575.4	21.7
80°-90°	56.5	2.1
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°	2647.0	100.0
0°-180°	2647.0	100.0

Coefficient of Utilization

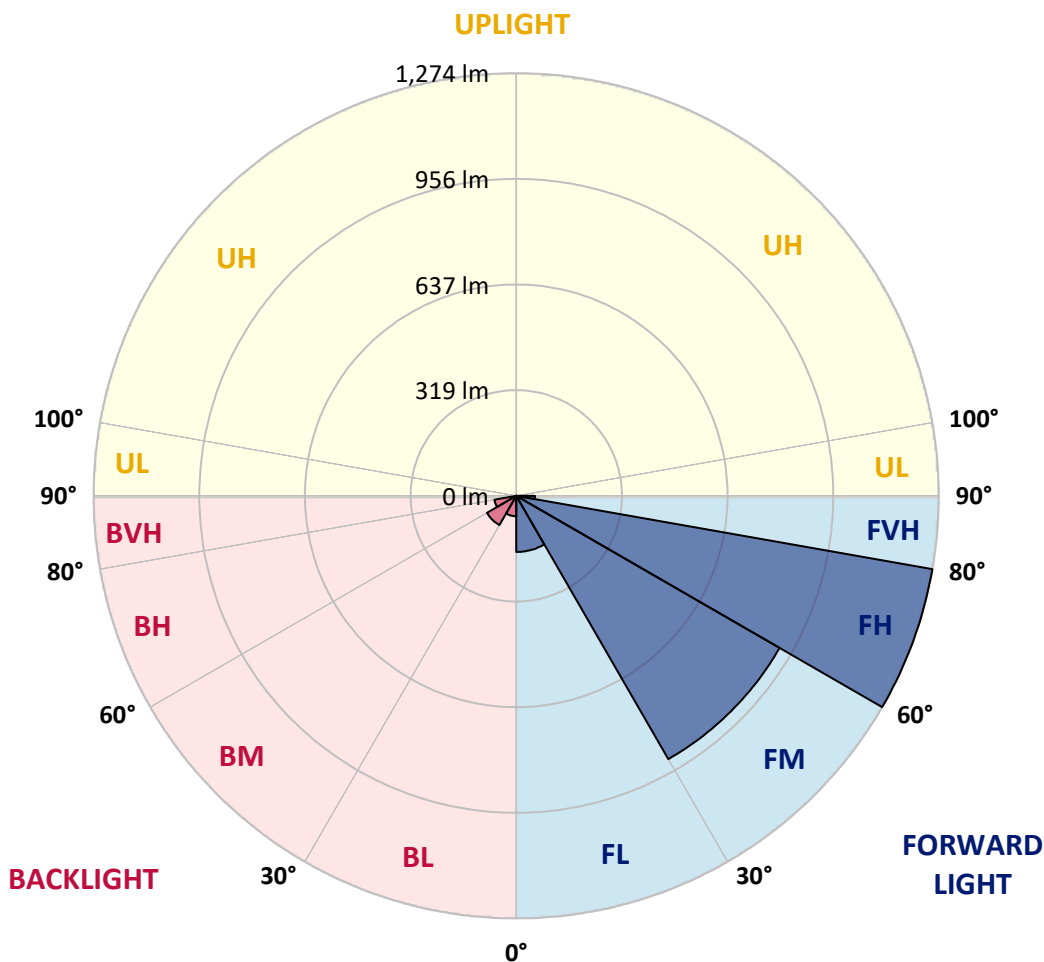


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.2	6.4			
FM (30°-60°)	916.9	34.6			
FH (60°-80°)	1274.1	48.1			G1/1800
FVH (80°-90°)	56.3	2.1			G1/100
BL (0°-30°)	61.5	2.3	B0/110		
BM (30°-60°)	101.9	3.9	B0/220		
BH (60°-80°)	66.8	2.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	348.6	350.3	351.2	346.8	346.8	343.2	337.8	336.0	333.4	330.7	329.8
5°	366.4	369.1	368.2	362.9	360.2	353.0	345.9	338.7	331.6	325.3	325.3
7.5°	387.0	387.9	385.2	376.3	370.9	361.1	350.3	342.3	333.4	324.4	322.6
10°	404.9	404.0	400.4	391.5	381.6	369.1	357.5	348.6	337.8	327.1	326.2
12.5°	417.4	418.3	413.8	401.3	391.5	377.2	365.5	356.6	344.1	332.5	329.8
15°	428.1	430.8	425.4	412.9	398.6	386.1	377.2	365.5	351.2	337.8	336.0
17.5°	437.9	438.8	434.4	420.1	406.6	395.9	386.1	375.4	361.1	344.1	342.3
20°	443.3	446.0	443.3	425.4	412.9	404.9	396.8	386.1	370.0	353.9	352.1
22.5°	446.9	449.5	448.6	429.0	418.3	412.0	404.9	395.0	379.8	361.1	359.3
25°	448.6	450.4	452.2	432.6	423.6	420.9	414.7	405.8	391.5	371.8	370.0
27.5°	451.3	453.1	454.9	437.0	433.5	430.8	429.0	421.8	404.9	384.3	381.6
30°	455.8	458.5	460.3	445.1	445.1	447.8	447.8	437.9	419.2	397.7	395.9
32.5°	461.2	462.1	465.6	453.1	457.6	463.8	462.1	452.2	432.6	412.9	410.2
35°	475.5	475.5	481.7	465.6	471.0	476.4	478.1	471.0	453.1	433.5	432.6
37.5°	510.3	510.3	515.7	489.8	488.9	494.2	500.5	500.5	482.6	464.7	462.9
40°	589.0	589.0	589.0	529.1	519.3	525.5	535.3	540.7	525.5	513.0	513.0
42.5°	720.3	721.2	707.8	601.5	559.5	570.2	580.9	592.5	584.5	575.6	573.8
45°	856.2	851.7	849.9	707.8	631.0	625.6	639.0	658.7	661.4	656.0	659.6
47.5°	949.1	953.6	956.3	840.1	731.1	694.4	706.9	734.6	750.7	749.8	755.2
50°	1039.4	1042.1	1044.8	985.8	863.3	781.1	789.2	826.7	849.0	856.2	859.8
52.5°	1118.0	1110.9	1122.5	1114.5	1003.7	880.3	880.3	923.2	963.4	966.1	965.2
55°	1141.3	1145.8	1180.6	1204.7	1147.5	1001.9	984.0	1029.6	1072.5	1094.8	1094.8
57.5°	1193.1	1197.6	1239.6	1294.1	1252.1	1121.6	1094.8	1139.5	1186.0	1228.9	1235.1
60°	1261.0	1261.9	1306.6	1389.7	1331.6	1229.8	1207.4	1258.4	1304.8	1378.1	1398.7
62.5°	1297.7	1301.3	1362.9	1472.0	1431.7	1324.5	1319.1	1365.6	1425.5	1554.2	1573.0
65°	1241.4	1264.6	1398.7	1521.1	1513.1	1413.0	1431.7	1469.3	1538.1	1726.7	1744.6
67.5°	1074.3	1100.2	1339.7	1567.6	1583.7	1496.1	1515.8	1570.3	1646.2	1857.2	1832.1
70°	989.4	1010.8	1196.7	1593.5	1642.7	1589.0	1598.0	1648.9	1671.3	1748.1	1721.3
72.5°	749.8	772.2	1012.6	1505.0	1693.6	1686.5	1664.1	1622.1	1489.8	1375.4	1310.2
75°	331.6	357.5	673.9	1176.1	1567.6	1741.9	1623.9	1388.8	1069.8	781.1	723.9
77.5°	146.6	161.8	261.0	653.3	1177.9	1507.7	1284.3	925.9	537.1	290.5	269.9
80°	47.4	49.2	82.2	228.8	602.4	998.3	786.5	445.1	165.3	67.9	63.5
82.5°	18.8	20.6	39.3	96.5	249.3	396.8	386.1	160.9	48.3	17.9	17.9
85°	5.4	6.3	19.7	50.9	88.5	111.7	136.7	53.6	25.9	5.4	5.4
87.5°	1.8	1.8	7.1	16.1	17.0	11.6	25.9	20.6	16.1	1.8	1.8
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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	328.0	326.2	321.7	318.2	316.4	313.7	310.1	308.3	308.3	307.4	304.8
5°	321.7	319.1	311.0	305.7	301.2	291.4	284.2	275.3	266.3	263.6	266.3
7.5°	319.1	313.7	303.0	292.2	273.5	247.6	230.6	211.8	205.6	197.5	198.4
10°	320.0	313.7	298.5	274.4	237.7	199.3	172.5	147.5	135.0	128.7	129.6
12.5°	322.6	315.5	294.0	250.2	197.5	151.0	109.9	90.3	86.7	86.7	86.7
15°	328.0	317.3	286.9	221.6	154.6	100.1	77.8	76.0	78.6	81.3	82.2
17.5°	333.4	322.6	276.2	192.2	112.6	75.1	72.4	72.4	75.1	77.8	78.6
20°	339.6	328.0	261.0	160.9	80.4	70.6	69.7	68.8	70.6	73.3	74.2
22.5°	349.4	333.4	243.1	124.2	69.7	67.9	66.1	65.2	66.1	68.8	69.7
25°	358.4	340.5	224.3	92.1	65.2	63.5	62.6	61.7	61.7	63.5	64.3
27.5°	369.1	348.6	203.8	68.8	59.9	59.0	58.1	57.2	56.3	58.1	59.0
30°	382.5	355.7	181.4	58.1	54.5	53.6	52.7	51.8	50.9	51.8	52.7
32.5°	399.5	365.5	155.5	52.7	50.0	47.4	46.5	46.5	45.6	45.6	46.5
35°	421.8	376.3	127.8	49.2	45.6	42.9	40.2	39.3	39.3	39.3	40.2
37.5°	454.9	395.9	101.0	45.6	42.0	37.5	34.9	32.2	32.2	32.2	32.2
40°	500.5	417.4	78.6	42.9	39.3	33.1	29.5	25.9	24.1	23.2	24.1
42.5°	571.1	449.5	60.8	39.3	37.5	29.5	24.1	19.7	16.1	15.2	16.1
45°	648.8	484.4	48.3	36.6	34.0	25.0	18.8	13.4	9.8	8.9	9.8
47.5°	747.2	528.2	41.1	33.1	29.5	20.6	13.4	7.1	4.5	5.4	5.4
50°	841.9	571.1	37.5	30.4	25.9	17.0	8.0	3.6	1.8	2.7	2.7
52.5°	946.5	616.7	34.9	26.8	22.3	12.5	4.5	0.9	0.0	0.9	0.9
55°	1051.9	657.8	32.2	24.1	17.9	8.9	1.8	0.0	0.0	0.0	0.9
57.5°	1166.3	692.6	29.5	20.6	13.4	5.4	0.9	0.0	0.0	0.0	0.0
60°	1261.9	719.4	26.8	17.9	8.9	2.7	0.0	0.0	0.0	0.0	0.0
62.5°	1349.5	743.6	20.6	13.4	5.4	1.8	0.0	0.0	0.0	0.0	0.0
65°	1407.6	748.9	14.3	8.9	3.6	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	1381.7	702.5	8.9	6.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0
70°	1214.6	589.9	6.3	3.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	849.9	380.7	5.4	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	448.6	137.6	3.6	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	159.1	30.4	1.8	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0
80°	34.9	6.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)