

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: P594503

Luminaire Tested: **ISS-PA1A-827-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594503
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-827-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 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: 2327 lumens
Efficiency: N/A
Efficacy: 80.5 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

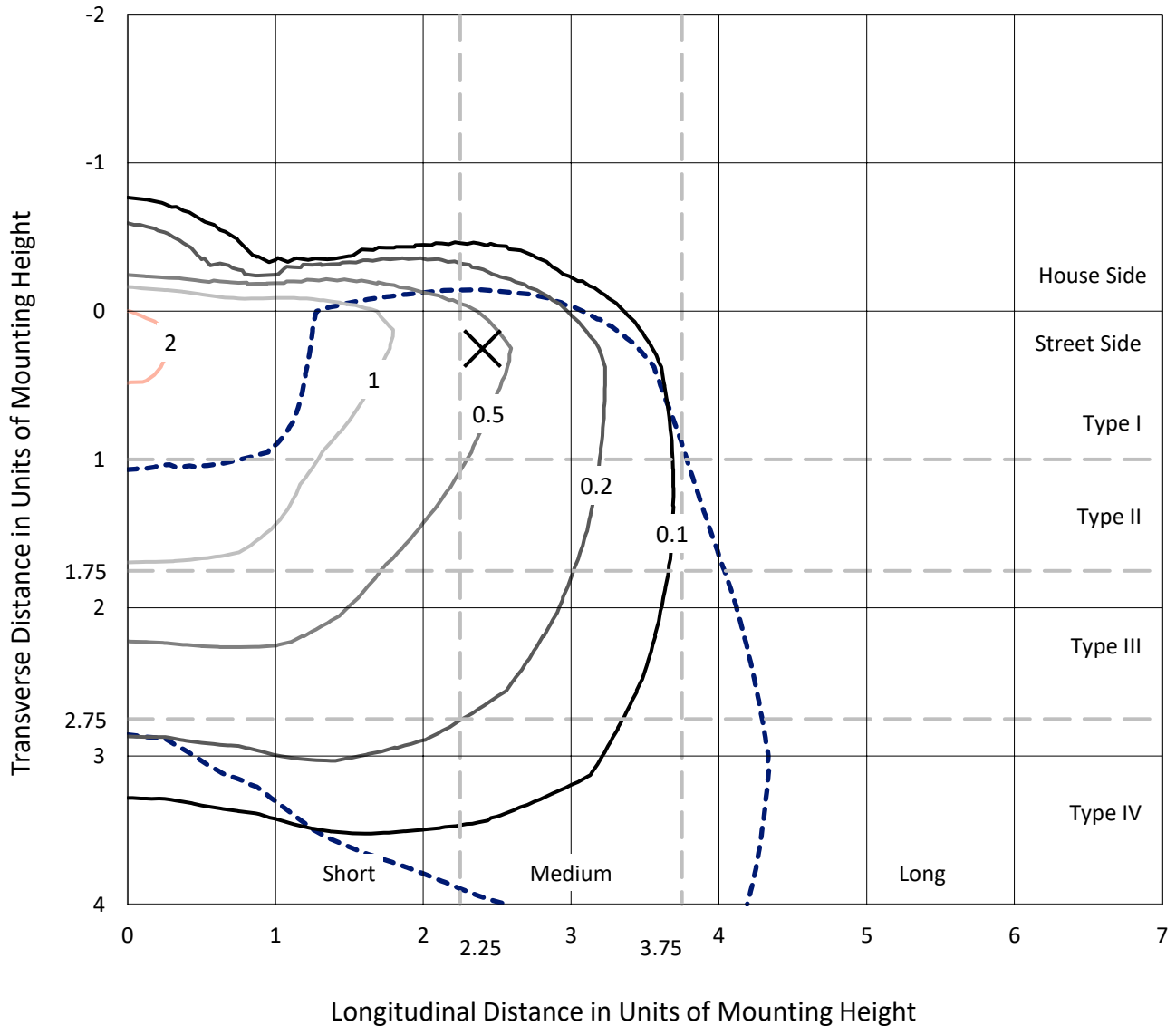
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

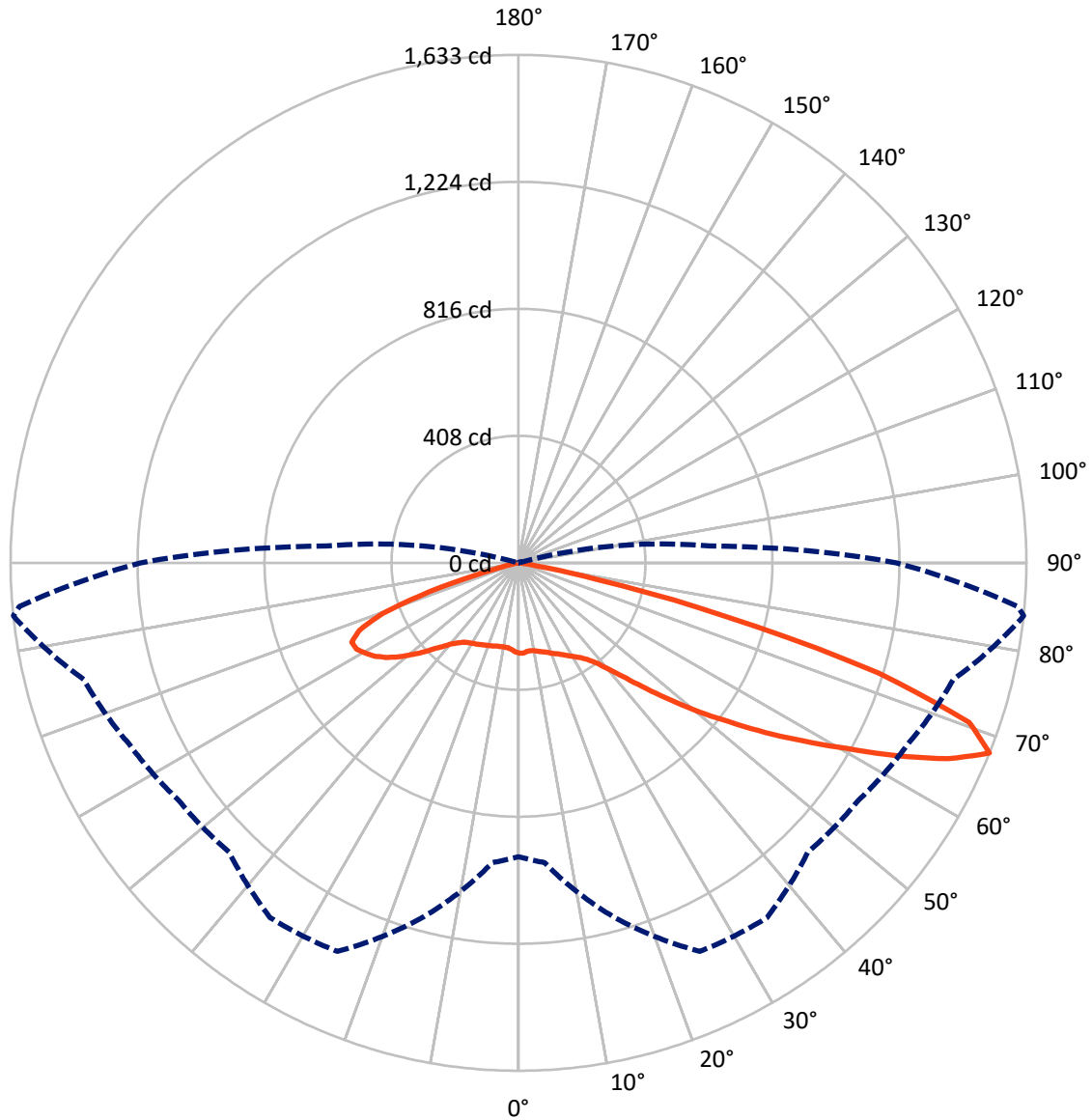
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.4 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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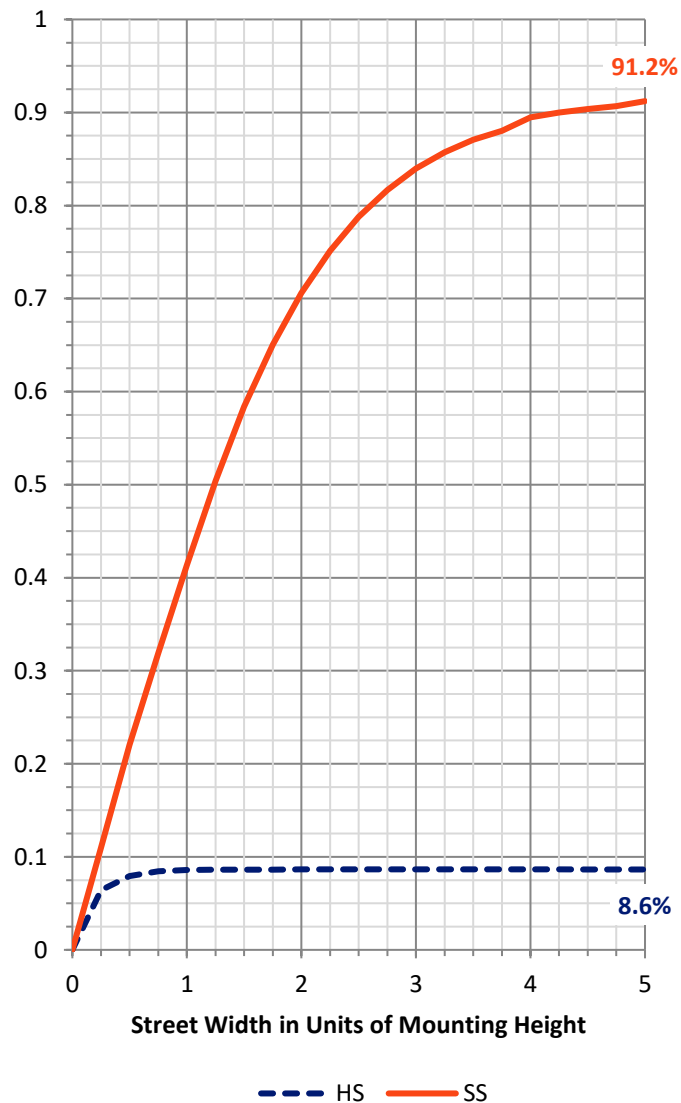
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	202.6	0.0	202.6
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2124.4	0.0	2124.4
	% Fixture	91.3	0.0	91.3
Total	Lumens	2327.0	0.0	2327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	1.1
10°-20°	68.0	2.9
20°-30°	108.9	4.7
30°-40°	156.7	6.7
40°-50°	269.0	11.6
50°-60°	470.0	20.2
60°-70°	673.0	28.9
70°-80°	505.8	21.7
80°-90°	49.6	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°	2327.0	100.0
0°-180°	2327.0	100.0

Coefficient of Utilization

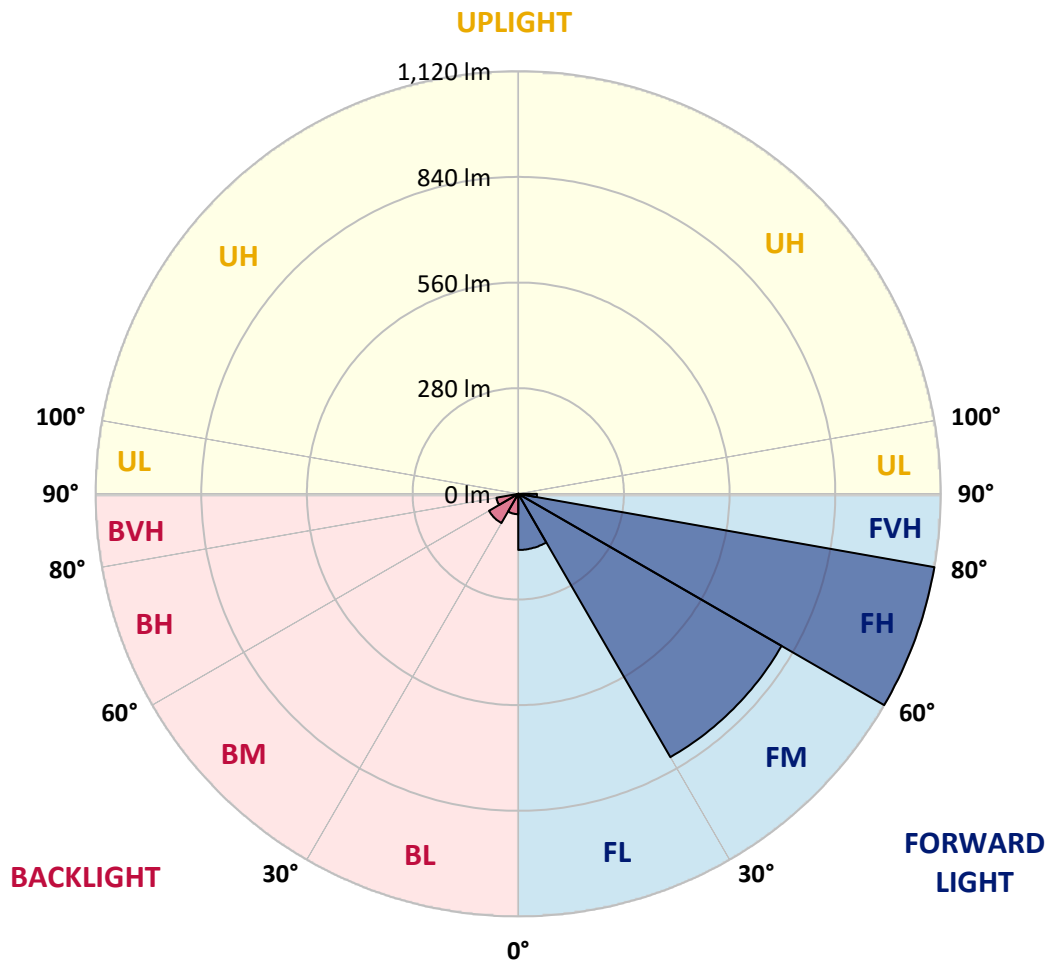


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.8	6.4			
FM (30°-60°)	806.1	34.6			
FH (60°-80°)	1120.1	48.1			G1/1800
FVH (80°-90°)	49.5	2.1			G1/100
BL (0°-30°)	54.1	2.3	B0/110		
BM (30°-60°)	89.6	3.9	B0/220		
BH (60°-80°)	58.7	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°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	306.4	308.0	308.8	304.8	304.8	301.7	297.0	295.4	293.1	290.7	289.9
5°	322.1	324.5	323.7	319.0	316.6	310.3	304.1	297.8	291.5	286.0	286.0
7.5°	340.2	341.0	338.6	330.8	326.1	317.4	308.0	300.9	293.1	285.2	283.6
10°	355.9	355.1	352.0	344.1	335.5	324.5	314.3	306.4	297.0	287.6	286.8
12.5°	366.9	367.7	363.8	352.8	344.1	331.6	321.3	313.5	302.5	292.3	289.9
15°	376.3	378.7	374.0	363.0	350.4	339.4	331.6	321.3	308.8	297.0	295.4
17.5°	385.0	385.8	381.8	369.3	357.5	348.1	339.4	330.0	317.4	302.5	300.9
20°	389.7	392.1	389.7	374.0	363.0	355.9	348.8	339.4	325.3	311.1	309.6
22.5°	392.8	395.2	394.4	377.1	367.7	362.2	355.9	347.3	333.9	317.4	315.8
25°	394.4	396.0	397.6	380.3	372.4	370.1	364.6	356.7	344.1	326.8	325.3
27.5°	396.8	398.3	399.9	384.2	381.1	378.7	377.1	370.8	355.9	337.8	335.5
30°	400.7	403.1	404.6	391.3	391.3	393.6	393.6	385.0	368.5	349.6	348.1
32.5°	405.4	406.2	409.3	398.3	402.3	407.8	406.2	397.6	380.3	363.0	360.6
35°	418.0	418.0	423.5	409.3	414.1	418.8	420.3	414.1	398.3	381.1	380.3
37.5°	448.6	448.6	453.3	430.6	429.8	434.5	440.0	440.0	424.3	408.6	407.0
40°	517.8	517.8	517.8	465.1	456.5	462.0	470.6	475.3	462.0	451.0	451.0
42.5°	633.3	634.0	622.3	528.8	491.8	501.3	510.7	520.9	513.8	506.0	504.4
45°	752.7	748.8	747.2	622.3	554.7	550.0	561.8	579.0	581.4	576.7	579.8
47.5°	834.4	838.3	840.7	738.5	642.7	610.5	621.5	645.8	660.0	659.2	663.9
50°	913.7	916.1	918.5	866.6	759.0	686.7	693.8	726.8	746.4	752.7	755.8
52.5°	982.9	976.6	986.8	979.7	882.3	773.9	773.9	811.6	847.0	849.3	848.5
55°	1003.3	1007.2	1037.9	1059.1	1008.8	880.7	865.0	905.1	942.8	962.5	962.5
57.5°	1048.9	1052.8	1089.7	1137.7	1100.7	986.0	962.5	1001.7	1042.6	1080.3	1085.8
60°	1108.6	1109.4	1148.7	1221.7	1170.7	1081.1	1061.5	1106.2	1147.1	1211.5	1229.6
62.5°	1140.8	1144.0	1198.2	1294.0	1258.7	1164.4	1159.7	1200.5	1253.2	1366.3	1382.8
65°	1091.3	1111.7	1229.6	1337.2	1330.2	1242.2	1258.7	1291.7	1352.2	1517.9	1533.6
67.5°	944.4	967.2	1177.7	1378.1	1392.2	1315.2	1332.5	1380.4	1447.2	1632.6	1610.6
70°	869.7	888.6	1052.0	1400.9	1444.1	1396.9	1404.8	1449.6	1469.2	1536.8	1513.2
72.5°	659.2	678.8	890.2	1323.1	1488.9	1482.6	1462.9	1426.0	1309.7	1209.2	1151.8
75°	291.5	314.3	592.4	1034.0	1378.1	1531.3	1427.6	1220.9	940.5	686.7	636.4
77.5°	128.9	142.2	229.4	574.3	1035.5	1325.4	1129.0	814.0	472.2	255.3	237.3
80°	41.6	43.2	72.3	201.1	529.5	877.6	691.4	391.3	145.4	59.7	55.8
82.5°	16.5	18.1	34.6	84.9	219.2	348.8	339.4	141.4	42.4	15.7	15.7
85°	4.7	5.5	17.3	44.8	77.8	98.2	120.2	47.1	22.8	4.7	4.7
87.5°	1.6	1.6	6.3	14.1	14.9	10.2	22.8	18.1	14.1	1.6	1.6
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°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	288.3	286.8	282.8	279.7	278.1	275.8	272.6	271.1	271.1	270.3	267.9
5°	282.8	280.5	273.4	268.7	264.8	256.1	249.8	242.0	234.1	231.8	234.1
7.5°	280.5	275.8	266.3	256.9	240.4	217.6	202.7	186.2	180.7	173.6	174.4
10°	281.3	275.8	262.4	241.2	209.0	175.2	151.6	129.6	118.6	113.1	113.9
12.5°	283.6	277.3	258.5	220.0	173.6	132.8	96.6	79.4	76.2	76.2	76.2
15°	288.3	278.9	252.2	194.8	135.9	88.0	68.4	66.8	69.1	71.5	72.3
17.5°	293.1	283.6	242.8	168.9	99.0	66.0	63.6	63.6	66.0	68.4	69.1
20°	298.6	288.3	229.4	141.4	70.7	62.1	61.3	60.5	62.1	64.4	65.2
22.5°	307.2	293.1	213.7	109.2	61.3	59.7	58.1	57.4	58.1	60.5	61.3
25°	315.1	299.3	197.2	80.9	57.4	55.8	55.0	54.2	54.2	55.8	56.6
27.5°	324.5	306.4	179.1	60.5	52.6	51.9	51.1	50.3	49.5	51.1	51.9
30°	336.3	312.7	159.5	51.1	47.9	47.1	46.4	45.6	44.8	45.6	46.4
32.5°	351.2	321.3	136.7	46.4	44.0	41.6	40.9	40.9	40.1	40.1	40.9
35°	370.8	330.8	112.4	43.2	40.1	37.7	35.4	34.6	34.6	34.6	35.4
37.5°	399.9	348.1	88.8	40.1	36.9	33.0	30.6	28.3	28.3	28.3	28.3
40°	440.0	366.9	69.1	37.7	34.6	29.1	25.9	22.8	21.2	20.4	21.2
42.5°	502.0	395.2	53.4	34.6	33.0	25.9	21.2	17.3	14.1	13.4	14.1
45°	570.4	425.8	42.4	32.2	29.9	22.0	16.5	11.8	8.6	7.9	8.6
47.5°	656.8	464.3	36.1	29.1	25.9	18.1	11.8	6.3	3.9	4.7	4.7
50°	740.1	502.0	33.0	26.7	22.8	14.9	7.1	3.1	1.6	2.4	2.4
52.5°	832.0	542.1	30.6	23.6	19.6	11.0	3.9	0.8	0.0	0.8	0.8
55°	924.7	578.3	28.3	21.2	15.7	7.9	1.6	0.0	0.0	0.0	0.8
57.5°	1025.3	608.9	25.9	18.1	11.8	4.7	0.8	0.0	0.0	0.0	0.0
60°	1109.4	632.5	23.6	15.7	7.9	2.4	0.0	0.0	0.0	0.0	0.0
62.5°	1186.4	653.7	18.1	11.8	4.7	1.6	0.0	0.0	0.0	0.0	0.0
65°	1237.4	658.4	12.6	7.9	3.1	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1214.7	617.5	7.9	5.5	1.6	0.8	0.0	0.0	0.0	0.0	0.0
70°	1067.7	518.5	5.5	3.1	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	747.2	334.7	4.7	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	394.4	121.0	3.1	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	139.9	26.7	1.6	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0
80°	30.6	5.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	0.0	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)