

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: P594512

Luminaire Tested: **ISS-PA1A-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594512
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-830-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 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: 2515 lumens
Efficiency: N/A
Efficacy: 87.0 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

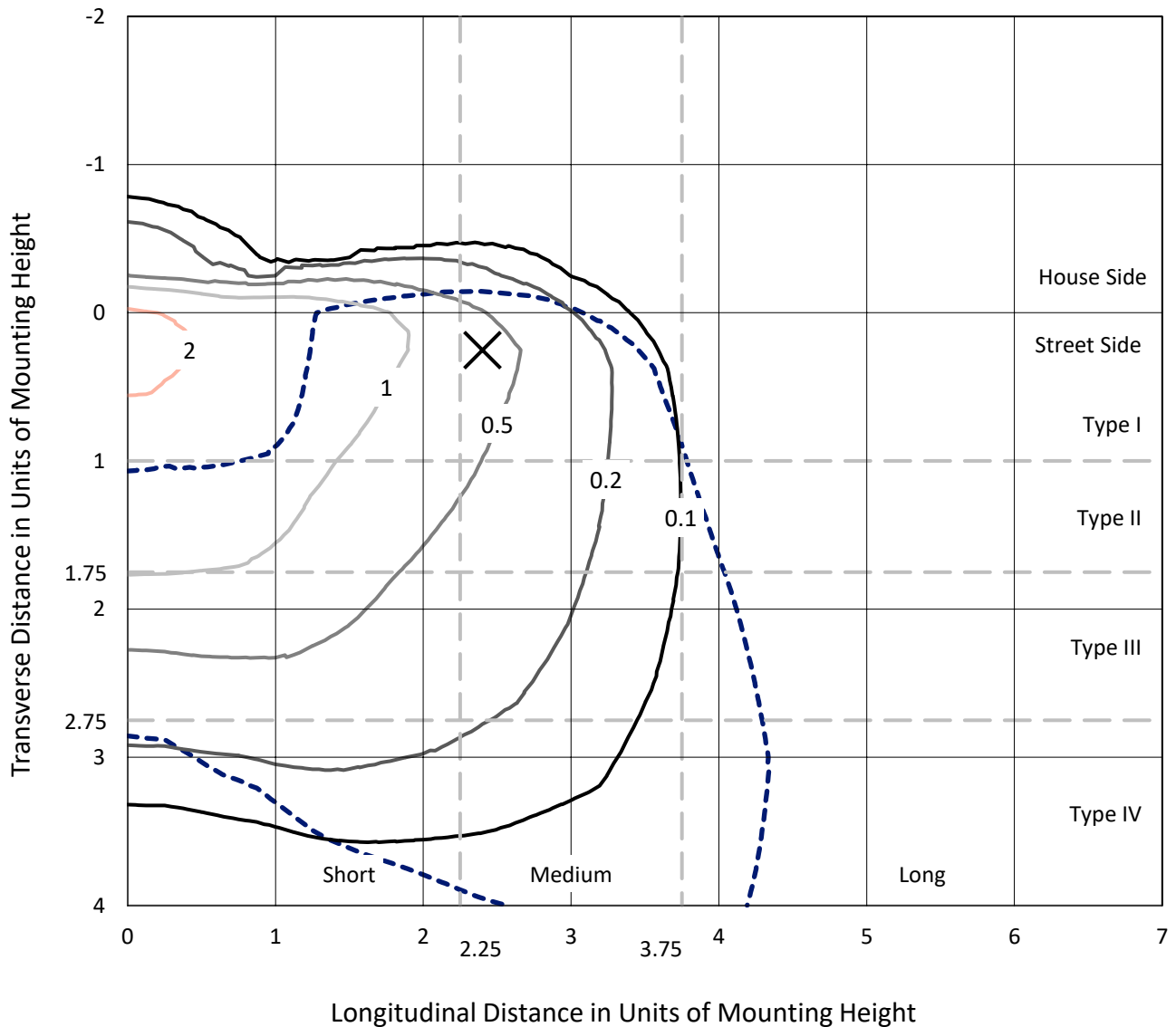
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

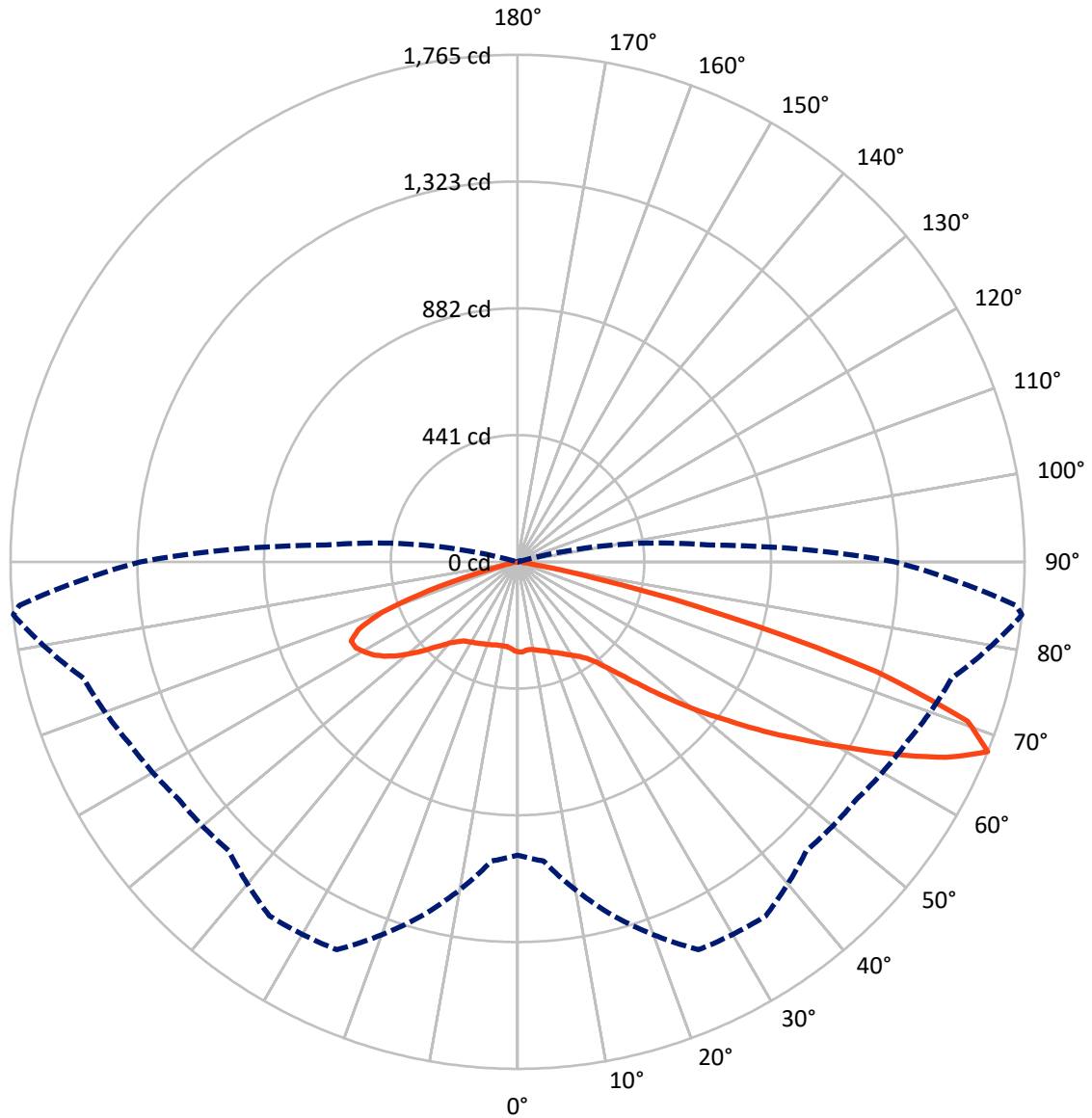
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.6 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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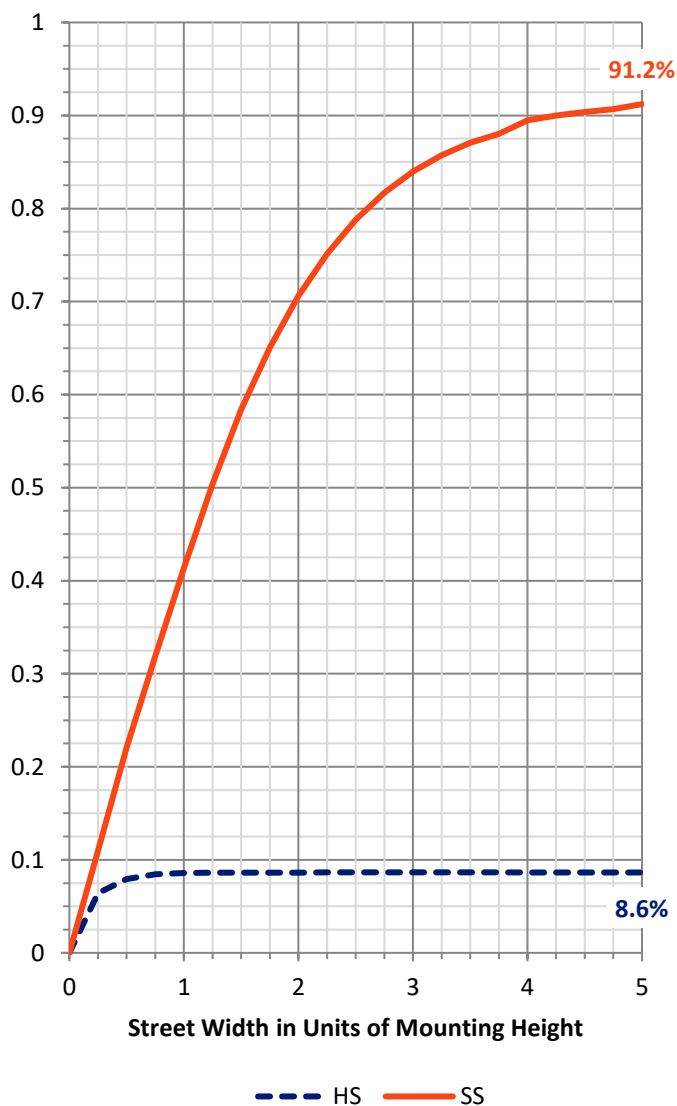
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	219.0	0.0	219.0
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2296.0	0.0	2296.0
	% Fixture	91.3	0.0	91.3
Total	Lumens	2515.0	0.0	2515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	1.1
10°-20°	73.5	2.9
20°-30°	117.7	4.7
30°-40°	169.4	6.7
40°-50°	290.7	11.6
50°-60°	507.9	20.2
60°-70°	727.4	28.9
70°-80°	546.7	21.7
80°-90°	53.7	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°	2515.0	100.0
0°-180°	2515.0	100.0

Coefficient of Utilization

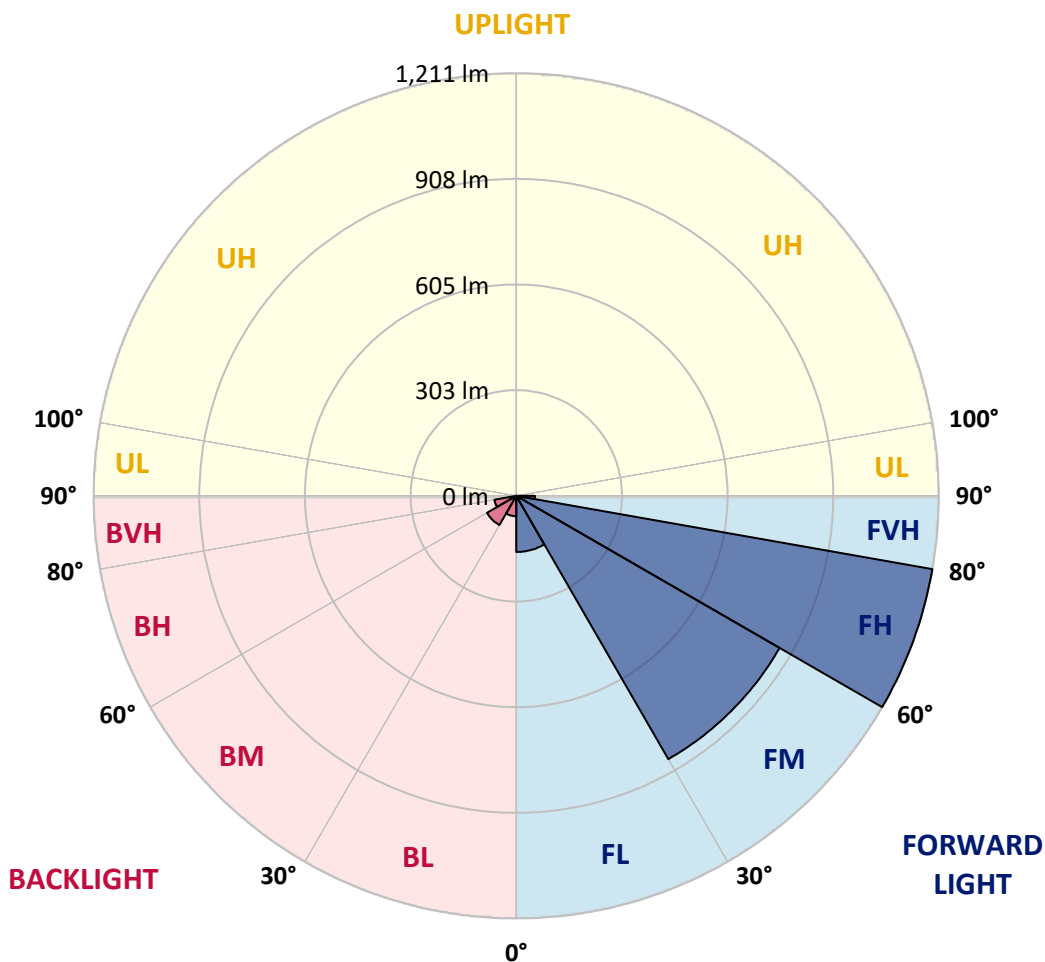


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	160.8	6.4			
FM (30°-60°)	871.2	34.6			
FH (60°-80°)	1210.6	48.1			G1/1800
FVH (80°-90°)	53.5	2.1			G1/100
BL (0°-30°)	58.5	2.3	B0/110		
BM (30°-60°)	96.8	3.9	B0/220		
BH (60°-80°)	63.5	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°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	331.2	332.9	333.7	329.5	329.5	326.1	321.0	319.3	316.7	314.2	313.3
5°	348.2	350.7	349.9	344.8	342.2	335.4	328.6	321.8	315.0	309.1	309.1
7.5°	367.7	368.5	366.0	357.5	352.4	343.1	332.9	325.2	316.7	308.2	306.5
10°	384.7	383.8	380.4	371.9	362.6	350.7	339.7	331.2	321.0	310.8	309.9
12.5°	396.6	397.4	393.2	381.3	371.9	358.3	347.3	338.8	326.9	315.9	313.3
15°	406.7	409.3	404.2	392.3	378.7	366.8	358.3	347.3	333.7	321.0	319.3
17.5°	416.1	416.9	412.7	399.1	386.4	376.2	366.8	356.6	343.1	326.9	325.2
20°	421.2	423.7	421.2	404.2	392.3	384.7	377.0	366.8	351.6	336.3	334.6
22.5°	424.6	427.1	426.3	407.6	397.4	391.5	384.7	375.3	360.9	343.1	341.4
25°	426.3	428.0	429.7	411.0	402.5	400.0	394.0	385.5	371.9	353.2	351.6
27.5°	428.8	430.5	432.2	415.2	411.8	409.3	407.6	400.8	384.7	365.1	362.6
30°	433.1	435.6	437.3	422.9	422.9	425.4	425.4	416.1	398.3	377.9	376.2
32.5°	438.2	439.0	442.4	430.5	434.8	440.7	439.0	429.7	411.0	392.3	389.8
35°	451.8	451.8	457.7	442.4	447.5	452.6	454.3	447.5	430.5	411.8	411.0
37.5°	484.9	484.9	490.0	465.3	464.5	469.6	475.5	475.5	458.5	441.6	439.9
40°	559.6	559.6	559.6	502.7	493.4	499.3	508.6	513.7	499.3	487.4	487.4
42.5°	684.4	685.3	672.5	571.5	531.6	541.8	552.0	563.0	555.3	546.9	545.2
45°	813.5	809.2	807.5	672.5	599.5	594.4	607.1	625.8	628.4	623.3	626.7
47.5°	901.8	906.0	908.6	798.2	694.6	659.8	671.7	698.0	713.3	712.4	717.5
50°	987.6	990.1	992.7	936.6	820.3	742.2	749.8	785.5	806.7	813.5	816.9
52.5°	1062.3	1055.5	1066.5	1058.9	953.6	836.4	836.4	877.2	915.4	917.9	917.1
55°	1084.4	1088.6	1121.7	1144.7	1090.3	951.9	934.9	978.2	1019.0	1040.2	1040.2
57.5°	1133.6	1137.9	1177.8	1229.6	1189.7	1065.7	1040.2	1082.7	1126.8	1167.6	1173.5
60°	1198.2	1199.0	1241.5	1320.4	1265.2	1168.4	1147.2	1195.6	1239.8	1309.4	1328.9
62.5°	1233.0	1236.4	1295.0	1398.6	1360.3	1258.4	1253.4	1297.5	1354.4	1476.7	1494.5
65°	1179.5	1201.6	1328.9	1445.3	1437.6	1342.5	1360.3	1396.0	1461.4	1640.6	1657.6
67.5°	1020.7	1045.3	1272.9	1489.4	1504.7	1421.5	1440.2	1492.0	1564.1	1764.5	1740.8
70°	940.0	960.4	1137.0	1514.0	1560.7	1509.8	1518.3	1566.7	1587.9	1660.9	1635.5
72.5°	712.4	733.7	962.1	1430.0	1609.2	1602.4	1581.1	1541.2	1415.5	1306.9	1244.9
75°	315.0	339.7	640.3	1117.5	1489.4	1655.0	1542.9	1319.6	1016.4	742.2	687.8
77.5°	139.3	153.7	248.0	620.7	1119.2	1432.5	1220.2	879.7	510.3	276.0	256.4
80°	45.0	46.7	78.1	217.4	572.3	948.5	747.3	422.9	157.1	64.5	60.3
82.5°	17.8	19.5	37.4	91.7	236.9	377.0	366.8	152.8	45.9	17.0	17.0
85°	5.1	5.9	18.7	48.4	84.1	106.1	129.9	50.9	24.6	5.1	5.1
87.5°	1.7	1.7	6.8	15.3	16.1	11.0	24.6	19.5	15.3	1.7	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°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	311.6	309.9	305.7	302.3	300.6	298.1	294.7	293.0	293.0	292.1	289.6
5°	305.7	303.1	295.5	290.4	286.2	276.8	270.0	261.5	253.0	250.5	253.0
7.5°	303.1	298.1	287.9	277.7	259.8	235.2	219.1	201.3	195.3	187.7	188.5
10°	304.0	298.1	283.6	260.7	225.9	189.4	163.9	140.1	128.2	122.3	123.1
12.5°	306.5	299.8	279.4	237.8	187.7	143.5	104.4	85.8	82.4	82.4	82.4
15°	311.6	301.5	272.6	210.6	146.9	95.1	73.9	72.2	74.7	77.3	78.1
17.5°	316.7	306.5	262.4	182.6	107.0	71.3	68.8	68.8	71.3	73.9	74.7
20°	322.7	311.6	248.0	152.8	76.4	67.1	66.2	65.4	67.1	69.6	70.5
22.5°	332.0	316.7	231.0	118.0	66.2	64.5	62.8	62.0	62.8	65.4	66.2
25°	340.5	323.5	213.1	87.5	62.0	60.3	59.4	58.6	58.6	60.3	61.1
27.5°	350.7	331.2	193.6	65.4	56.9	56.0	55.2	54.3	53.5	55.2	56.0
30°	363.4	338.0	172.4	55.2	51.8	50.9	50.1	49.3	48.4	49.3	50.1
32.5°	379.6	347.3	147.8	50.1	47.6	45.0	44.2	44.2	43.3	43.3	44.2
35°	400.8	357.5	121.4	46.7	43.3	40.8	38.2	37.4	37.4	37.4	38.2
37.5°	432.2	376.2	96.0	43.3	39.9	35.7	33.1	30.6	30.6	30.6	30.6
40°	475.5	396.6	74.7	40.8	37.4	31.4	28.0	24.6	22.9	22.1	22.9
42.5°	542.6	427.1	57.7	37.4	35.7	28.0	22.9	18.7	15.3	14.4	15.3
45°	616.5	460.2	45.9	34.8	32.3	23.8	17.8	12.7	9.3	8.5	9.3
47.5°	709.9	501.9	39.1	31.4	28.0	19.5	12.7	6.8	4.2	5.1	5.1
50°	799.9	542.6	35.7	28.9	24.6	16.1	7.6	3.4	1.7	2.5	2.5
52.5°	899.3	585.9	33.1	25.5	21.2	11.9	4.2	0.8	0.0	0.8	0.8
55°	999.5	625.0	30.6	22.9	17.0	8.5	1.7	0.0	0.0	0.0	0.8
57.5°	1108.1	658.1	28.0	19.5	12.7	5.1	0.8	0.0	0.0	0.0	0.0
60°	1199.0	683.6	25.5	17.0	8.5	2.5	0.0	0.0	0.0	0.0	0.0
62.5°	1282.2	706.5	19.5	12.7	5.1	1.7	0.0	0.0	0.0	0.0	0.0
65°	1337.4	711.6	13.6	8.5	3.4	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1312.8	667.4	8.5	5.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0
70°	1154.0	560.4	5.9	3.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	807.5	361.7	5.1	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	426.3	130.8	3.4	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	151.1	28.9	1.7	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0
80°	33.1	5.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	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)