

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: INVUE

Report Number: P677038

Luminaire Tested: **CCW-SA-1A-830-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677038
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-830-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

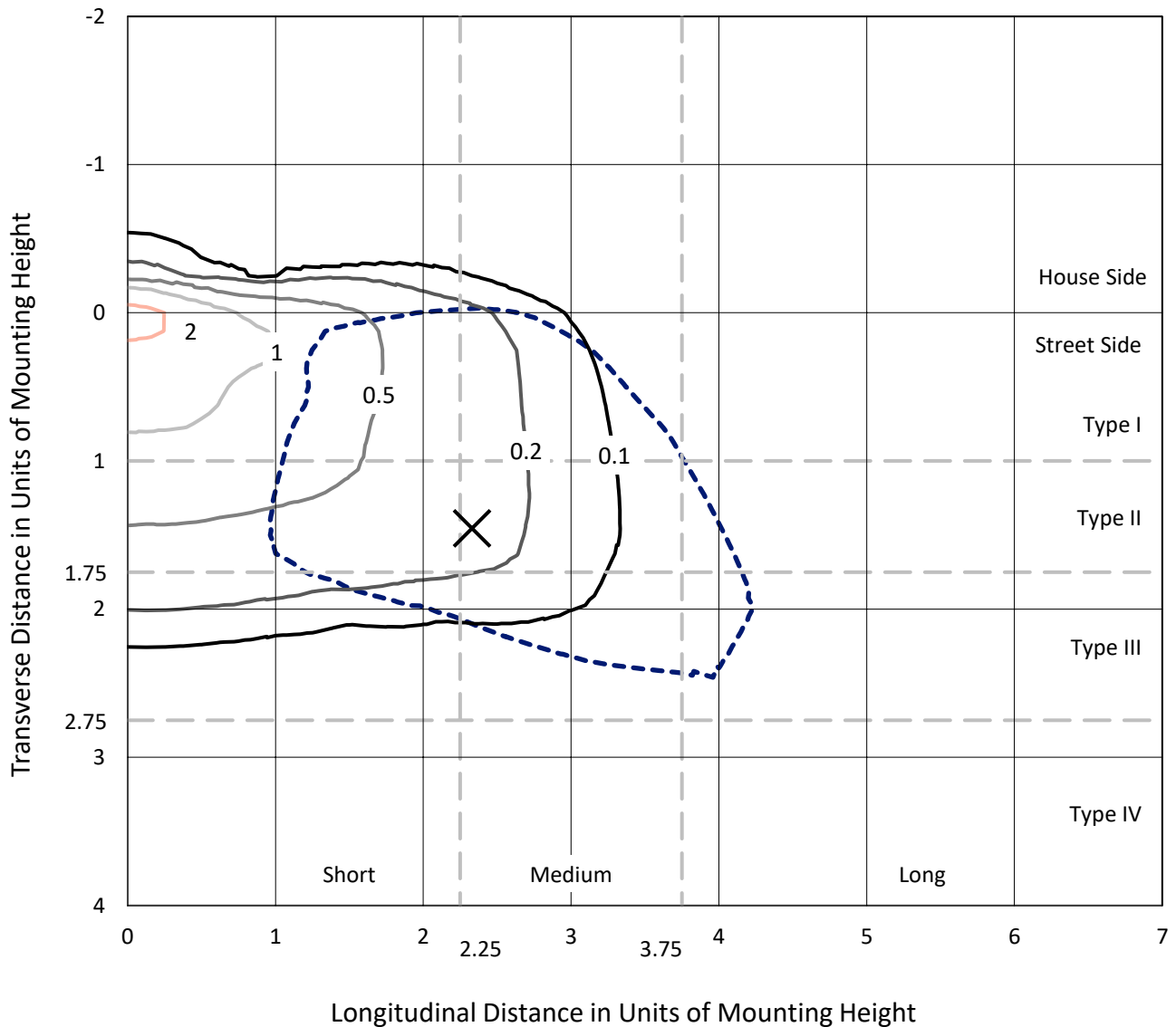
Lumens per Lamp: N/A
Luminaire Lumens: 1796.4 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

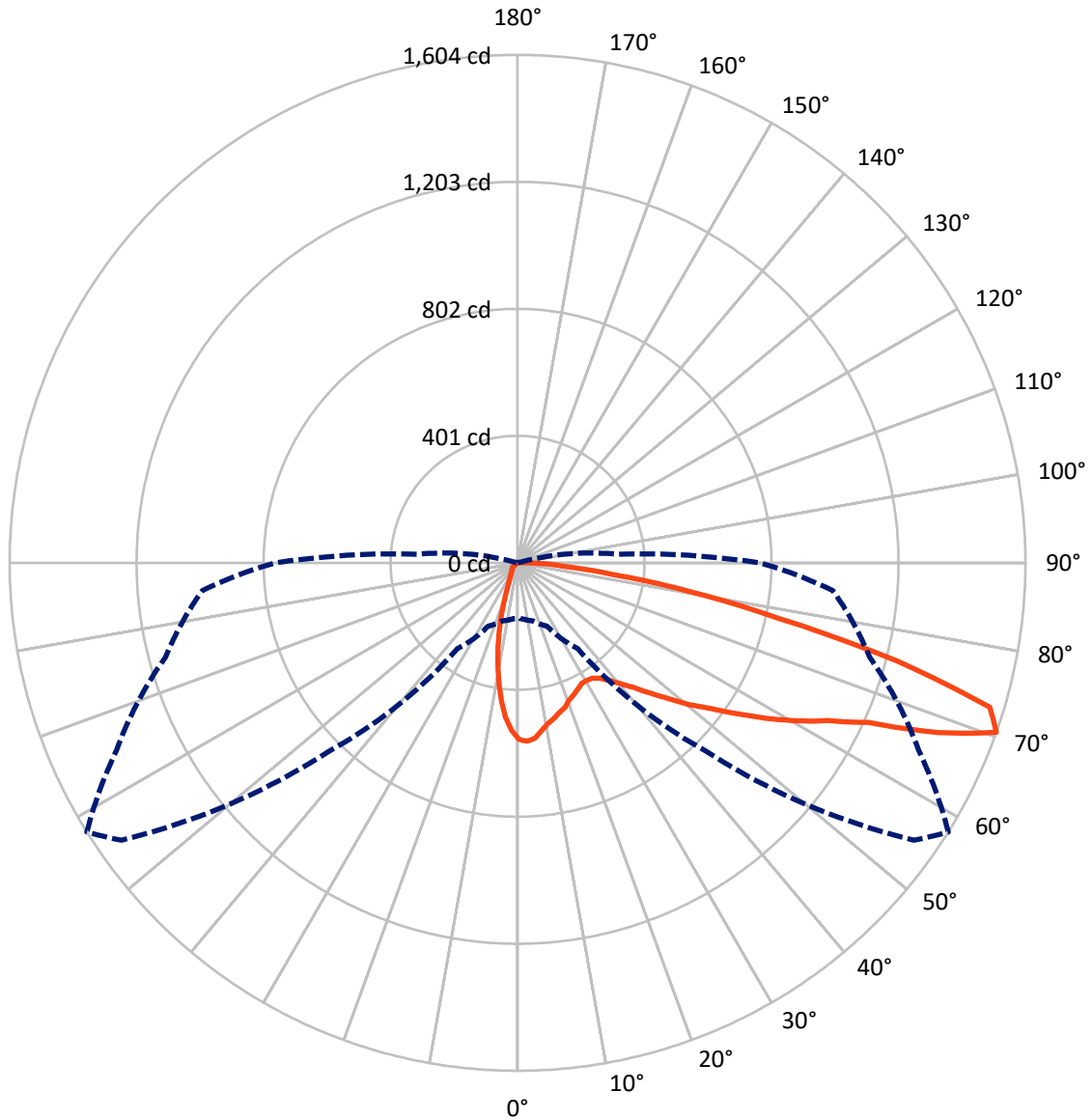
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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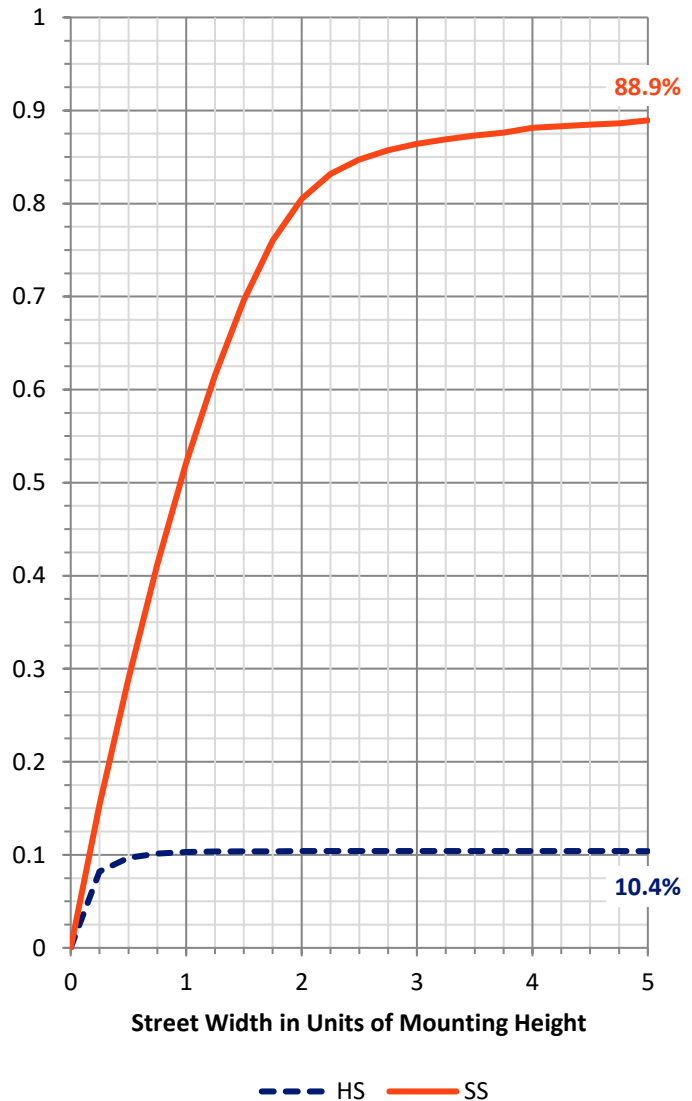
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	188.1	0.0	188.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	1608.3	0.0	1608.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	1796.4	0.0	1796.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	2.5
10°-20°	94.7	5.3
20°-30°	126.8	7.1
30°-40°	171.5	9.5
40°-50°	246.1	13.7
50°-60°	362.6	20.2
60°-70°	442.3	24.6
70°-80°	270.1	15.0
80°-90°	36.7	2.0
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°	1796.4	100.0
0°-180°	1796.4	100.0

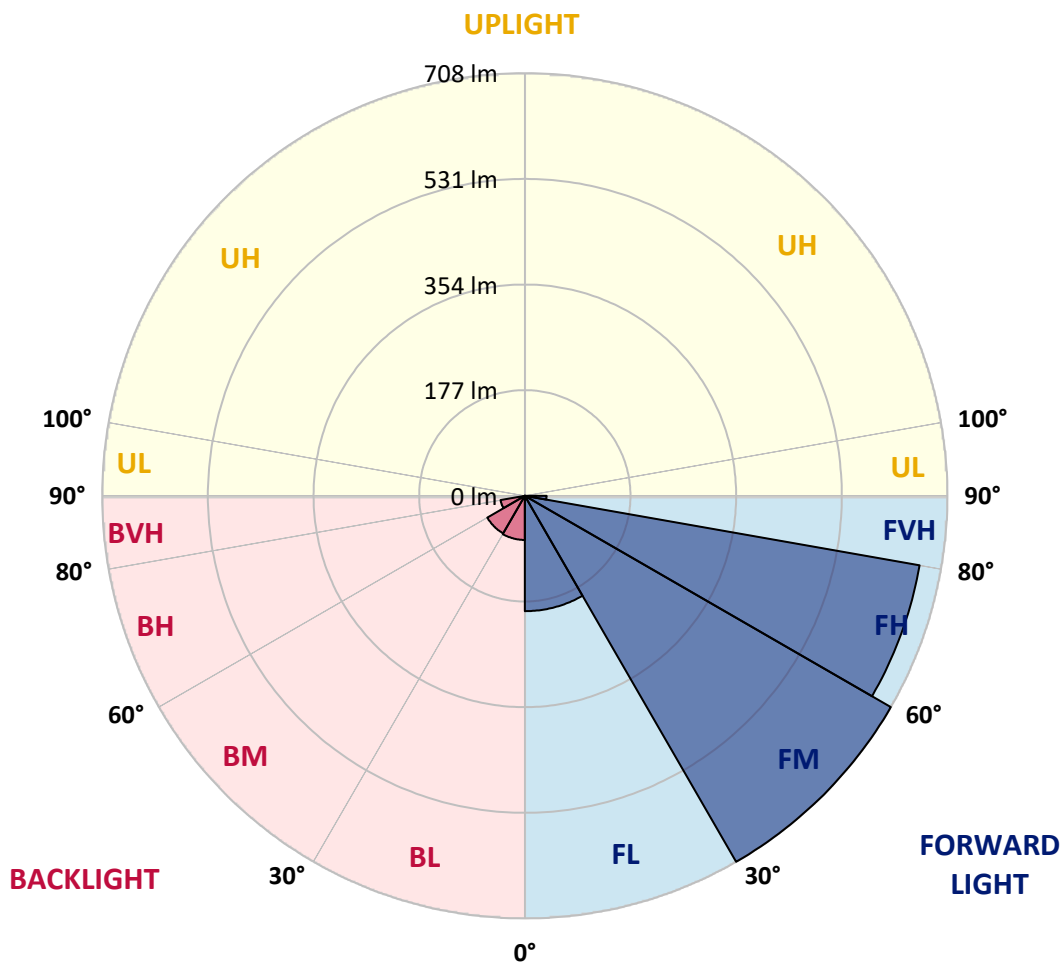


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.1	10.8			
FM (30°-60°)	707.6	39.4			
FH (60°-80°)	671.2	37.4			G1/1800
FVH (80°-90°)	36.3	2.0			G1/100
BL (0°-30°)	73.9	4.1	B0/110		
BM (30°-60°)	72.6	4.0	B0/220		
BH (60°-80°)	41.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	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°	58°	65°	75°	85°
0°	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6
2.5°	567.8	569.9	564.8	570.7	565.2	567.8	564.8	564.0	564.4	564.8	561.4
5°	541.2	546.3	548.4	545.0	553.0	551.8	556.8	557.2	555.1	553.0	553.4
7.5°	506.3	511.3	513.4	515.5	523.5	534.1	540.8	536.6	540.0	547.5	536.2
10°	481.0	479.7	479.3	483.5	498.7	507.5	518.9	517.6	526.1	533.2	524.0
12.5°	449.8	447.3	454.9	458.2	471.7	487.3	496.2	505.4	513.8	521.4	510.9
15°	426.7	428.8	431.7	438.9	448.6	469.2	482.3	491.1	506.3	510.1	505.8
17.5°	408.1	409.8	414.0	417.8	430.0	449.8	470.5	481.0	497.0	507.1	494.1
20°	408.5	403.5	403.5	407.3	414.0	437.6	459.5	462.9	484.8	502.1	493.2
22.5°	409.0	407.3	403.5	403.1	406.0	422.9	445.2	452.8	476.4	496.6	486.0
25°	414.9	408.5	409.0	403.1	404.3	412.8	430.5	441.8	468.8	499.5	482.3
27.5°	419.9	422.9	417.0	414.4	407.3	406.9	421.6	431.3	465.0	506.3	484.8
30°	431.3	433.4	433.4	431.7	425.0	415.3	418.7	430.9	457.4	505.0	480.6
32.5°	450.2	446.5	451.5	449.0	440.1	425.0	427.9	434.2	462.0	521.0	487.3
35°	456.6	459.5	466.3	460.8	457.8	449.0	443.1	447.7	468.8	537.0	497.4
37.5°	475.9	471.7	476.4	488.6	491.5	475.5	464.1	470.9	494.1	556.0	506.7
40°	477.6	481.0	489.4	513.4	516.4	509.6	500.4	502.1	519.3	580.4	529.9
42.5°	486.0	489.8	507.1	527.3	543.3	544.6	537.9	537.9	552.6	619.6	555.5
45°	502.5	496.2	518.5	552.6	575.8	580.4	589.2	587.1	598.9	660.8	603.6
47.5°	508.8	510.9	535.3	576.6	603.1	624.6	639.4	639.8	645.7	713.5	665.9
50°	529.4	529.0	558.5	596.8	636.0	675.2	703.8	703.8	703.4	764.9	719.4
52.5°	556.8	556.0	578.7	624.2	675.2	724.4	762.3	763.6	773.3	828.1	780.9
55°	601.5	597.7	619.6	653.3	714.3	774.1	839.8	840.3	832.7	873.1	825.1
57.5°	638.9	638.5	656.6	689.1	758.1	838.2	914.4	925.8	901.8	919.4	860.5
60°	629.3	634.7	672.2	720.2	804.5	918.2	994.8	1012.5	974.2	951.0	887.0
62.5°	569.0	581.7	622.5	699.2	843.6	1034.4	1105.6	1097.6	1012.1	978.0	919.4
65°	409.4	422.0	472.6	587.6	798.1	1116.6	1251.3	1215.1	1079.5	1018.0	962.8
67.5°	240.9	246.0	277.6	374.9	596.8	1071.9	1428.2	1431.2	1212.2	1079.5	1037.8
70°	173.9	177.7	190.0	221.1	330.6	840.3	1526.8	1603.5	1396.2	1150.3	998.2
72.5°	133.5	133.5	154.2	184.1	210.6	503.3	1405.1	1558.8	1436.2	1082.4	804.5
75°	96.0	98.6	120.9	158.4	194.2	252.7	1035.3	1237.0	1217.2	877.3	561.9
77.5°	55.2	56.4	85.1	132.7	182.4	173.5	639.8	838.6	862.2	549.2	243.4
80°	28.2	29.1	47.6	104.9	165.1	151.2	381.6	552.2	468.4	159.6	56.4
82.5°	13.9	13.9	21.5	67.0	140.3	133.9	224.5	304.9	165.9	36.6	23.6
85°	4.6	5.1	9.7	37.9	101.5	80.9	137.3	144.9	55.6	13.9	13.1
87.5°	1.3	1.7	2.5	13.9	44.2	53.1	81.7	92.7	22.7	5.5	6.3
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°	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6
2.5°	548.8	545.9	542.5	534.1	527.3	518.5	512.6	507.9	499.1	500.8	497.0
5°	543.3	537.9	518.5	499.9	483.1	457.4	439.7	428.3	419.1	409.8	416.6
7.5°	533.6	520.6	490.3	455.7	419.9	386.2	352.5	332.3	317.6	304.1	303.7
10°	517.2	496.2	448.6	403.5	348.3	304.1	261.1	227.4	205.5	189.5	189.1
12.5°	498.7	476.8	417.0	343.7	280.1	217.8	166.4	130.6	109.9	97.3	95.6
15°	486.9	454.9	377.4	290.6	211.9	141.9	92.2	69.9	61.9	59.0	59.0
17.5°	471.7	435.1	338.2	235.4	147.0	82.1	59.8	53.9	53.5	52.6	51.8
20°	465.4	419.9	303.3	187.8	93.1	58.1	51.4	50.1	50.1	49.3	48.4
22.5°	448.6	398.0	266.2	137.7	61.9	51.0	48.4	46.8	45.9	45.1	45.9
25°	441.0	382.4	231.2	95.2	50.5	45.5	44.2	42.5	41.3	40.9	40.9
27.5°	435.9	366.9	197.1	66.1	44.6	41.7	39.2	37.9	36.2	34.5	34.5
30°	432.1	354.6	164.3	48.9	40.0	37.1	35.0	32.0	29.9	28.2	28.2
32.5°	427.1	340.3	131.4	41.7	36.2	33.3	29.5	27.0	24.0	22.7	22.7
35°	428.8	330.6	103.2	37.1	32.4	28.6	25.3	21.9	19.0	17.7	17.3
37.5°	432.1	323.5	78.3	33.3	29.1	24.8	21.1	17.3	15.6	13.9	13.9
40°	446.5	321.4	57.7	30.7	26.5	21.9	17.7	14.3	12.6	11.4	11.0
42.5°	470.5	324.3	44.6	27.8	24.0	18.5	14.7	11.8	10.1	8.8	8.4
45°	501.2	335.7	36.6	26.1	21.1	15.6	11.8	9.7	7.6	6.7	6.7
47.5°	545.9	353.4	32.0	24.0	18.5	13.1	10.1	7.6	5.9	5.1	5.1
50°	596.4	373.6	28.2	21.5	16.0	11.0	8.0	5.9	4.2	3.8	3.8
52.5°	646.9	399.3	26.1	19.8	13.9	8.8	6.3	4.2	2.9	2.5	2.5
55°	700.0	422.0	23.6	18.5	11.4	7.2	4.6	2.5	1.7	1.3	1.3
57.5°	737.1	430.9	20.6	16.0	8.8	5.5	3.4	1.7	0.8	0.4	0.4
60°	763.6	432.1	17.7	13.1	6.7	4.2	2.1	0.8	0.4	0.0	0.0
62.5°	785.9	434.7	15.2	10.1	5.1	2.9	1.3	0.4	0.0	0.0	0.0
65°	830.2	432.6	12.2	8.0	3.4	1.7	0.8	0.0	0.0	0.0	0.0
67.5°	865.1	411.5	9.7	5.5	2.1	0.8	0.4	0.0	0.0	0.0	0.0
70°	765.3	313.8	7.6	3.8	1.3	0.4	0.0	0.0	0.0	0.0	0.0
72.5°	601.0	209.3	5.1	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0
75°	394.2	104.0	3.8	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	153.3	27.4	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.1	9.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.0	3.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	0.8	0.4	0.4	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)