

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: P677193

Luminaire Tested: **CCW-SA-1A-835-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677193
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

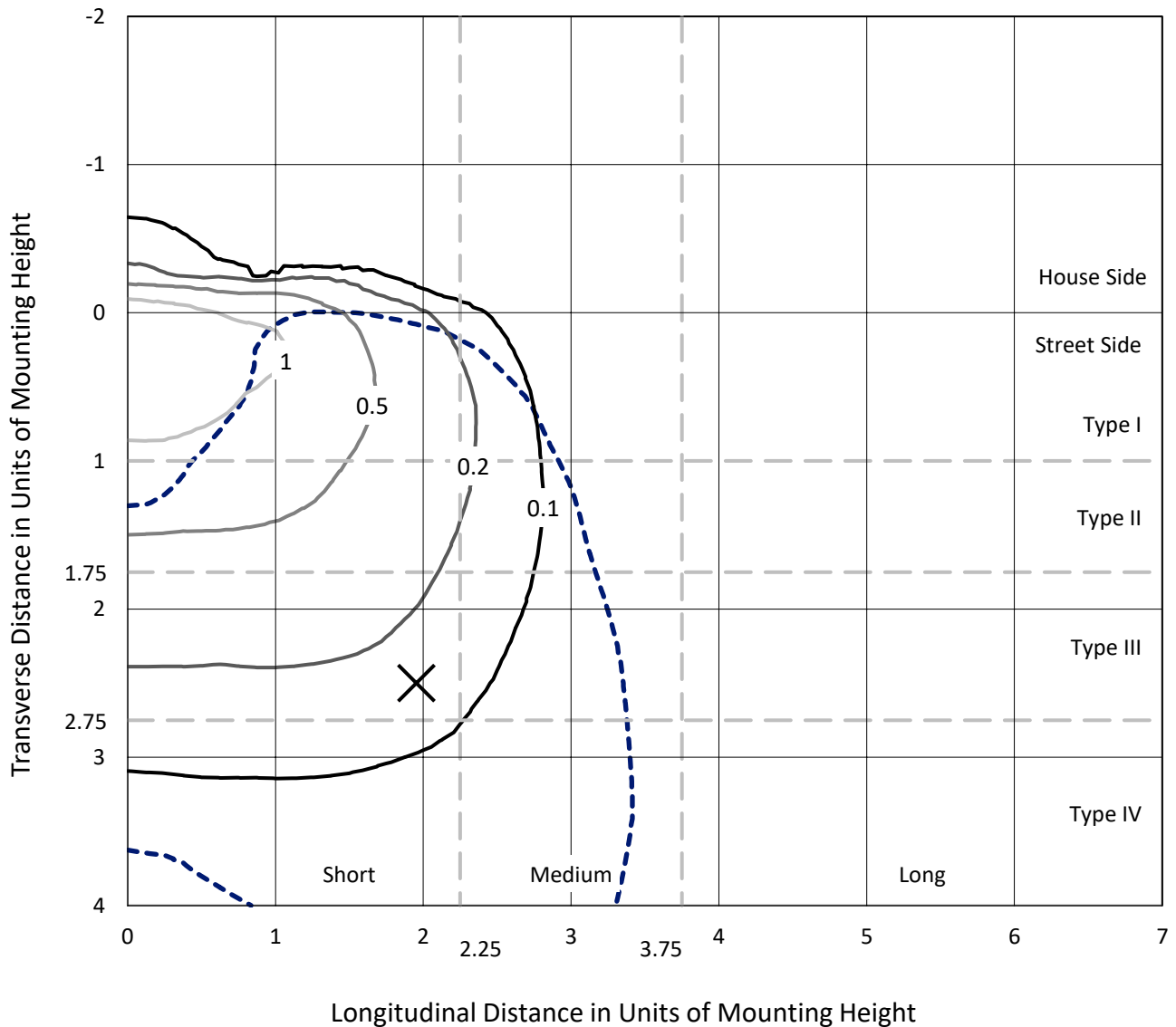
Lumens per Lamp: N/A
Luminaire Lumens: 1862.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

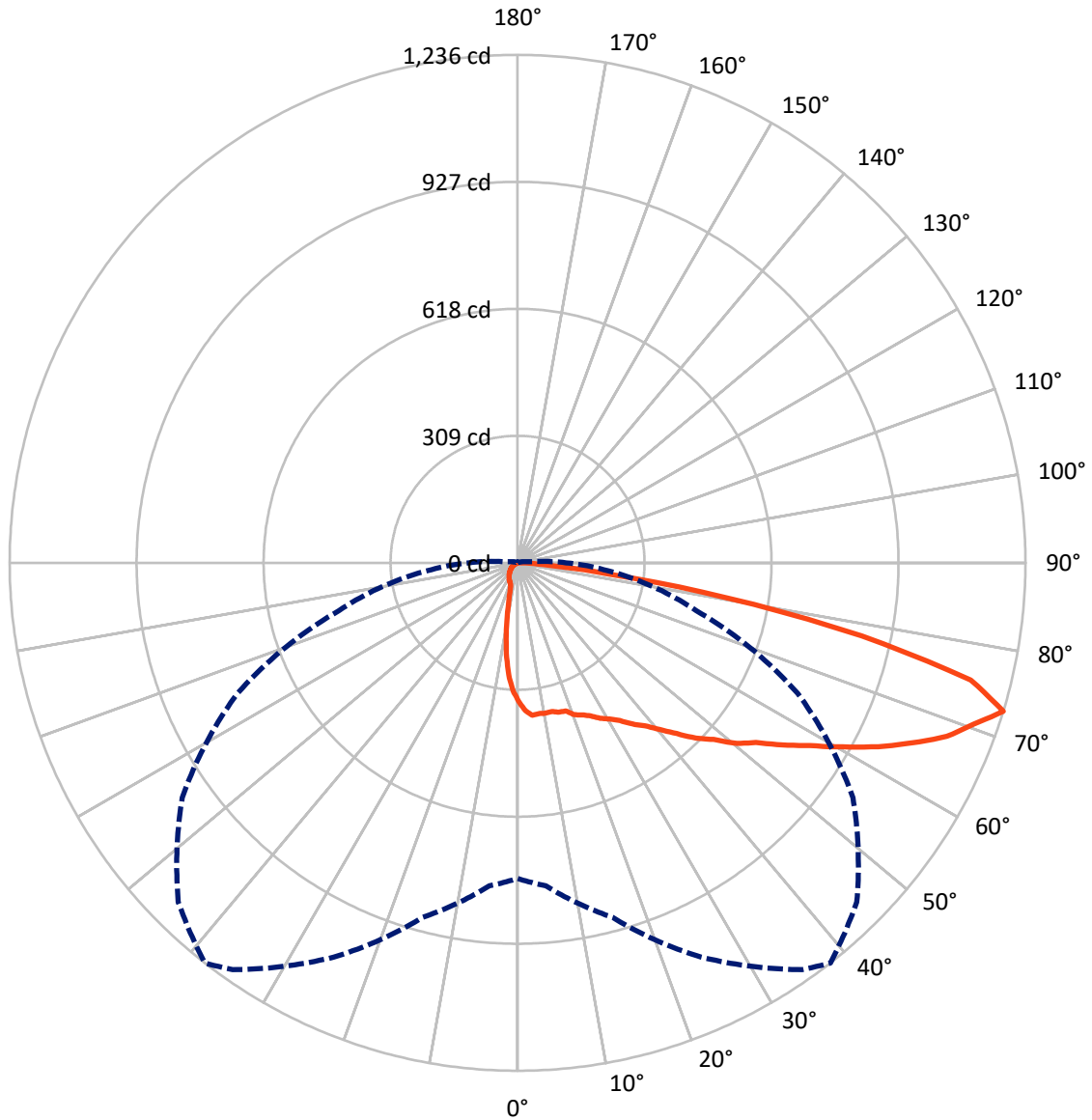
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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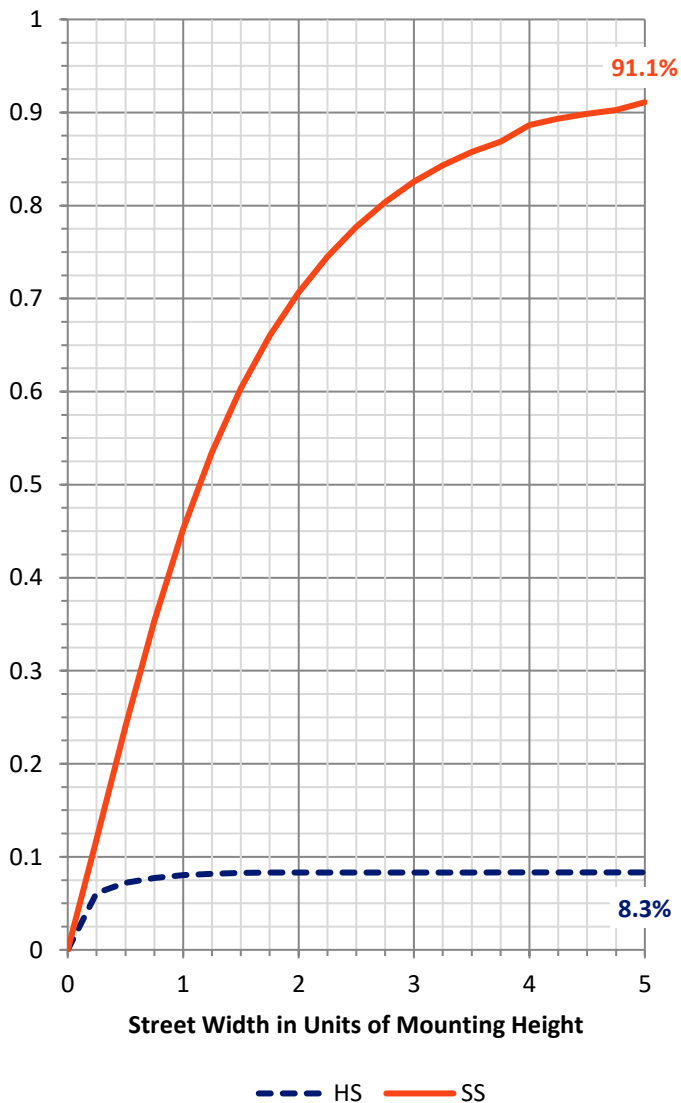
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	156.0	0.0	156.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	1706.2	0.0	1706.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	1862.1	0.0	1862.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	1.6
10°-20°	72.2	3.9
20°-30°	115.7	6.2
30°-40°	174.7	9.4
40°-50°	265.8	14.3
50°-60°	374.3	20.1
60°-70°	457.2	24.6
70°-80°	332.0	17.8
80°-90°	40.9	2.2
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°	1862.1	100.0
0°-180°	1862.1	100.0

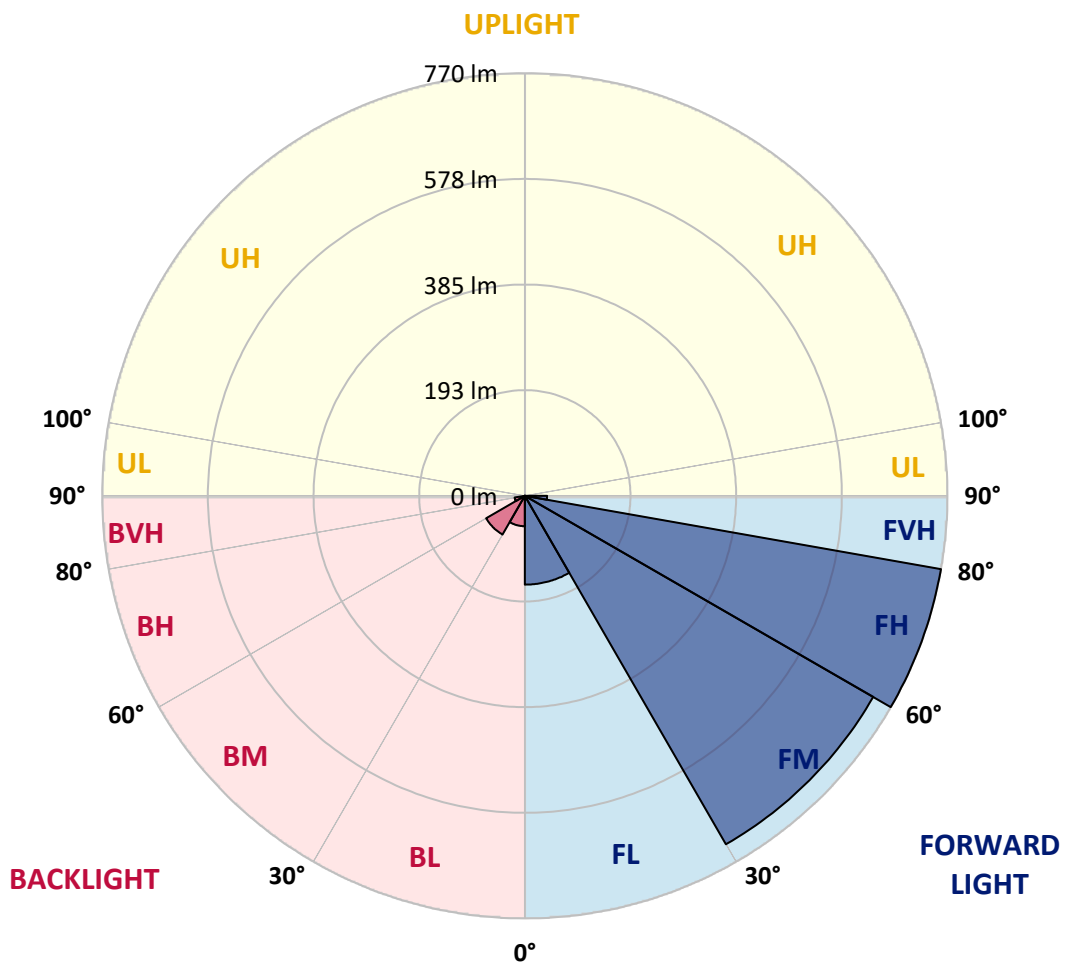


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.0	8.7			
FM (30°-60°)	733.3	39.4			
FH (60°-80°)	770.2	41.4			G1/1800
FVH (80°-90°)	40.7	2.2			G1/100
BL (0°-30°)	55.4	3.0	B0/110		
BM (30°-60°)	81.5	4.4	B0/220		
BH (60°-80°)	18.9	1.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7
2.5°	369.9	369.9	373.4	369.9	368.6	360.3	360.8	356.4	352.0	345.9	340.2
5°	374.3	377.4	379.5	376.5	371.7	372.6	375.6	367.3	355.5	348.1	335.4
7.5°	372.6	379.1	377.4	375.6	372.6	370.4	366.0	362.5	356.8	349.8	335.0
10°	371.2	373.4	373.9	372.6	366.0	372.1	367.3	361.6	354.7	346.4	328.0
12.5°	366.4	366.4	370.4	367.3	368.2	371.2	369.1	367.8	360.3	353.3	337.2
15°	361.2	362.9	369.1	373.9	378.2	376.9	375.6	371.7	365.1	357.3	340.2
17.5°	362.5	363.4	373.0	381.7	379.5	378.7	385.7	377.4	370.8	362.1	342.9
20°	367.3	369.9	380.9	392.2	394.4	394.4	391.8	387.0	377.8	366.0	347.7
22.5°	372.1	373.0	390.9	405.3	407.5	401.8	404.0	390.0	381.3	374.7	352.5
25°	390.5	388.7	407.9	419.3	418.0	412.3	410.1	397.9	394.4	382.6	362.9
27.5°	415.4	407.9	426.7	433.7	426.7	428.5	422.3	409.2	401.8	394.8	367.8
30°	430.6	435.0	445.1	452.0	440.3	440.7	437.6	423.2	411.9	413.6	383.9
32.5°	454.2	457.3	464.7	467.8	458.6	457.7	454.7	443.3	435.0	433.3	405.8
35°	479.6	485.2	485.7	486.6	478.3	481.7	477.4	461.2	465.6	468.6	432.0
37.5°	504.5	499.2	508.0	511.9	502.7	502.7	504.0	493.1	501.0	510.1	469.1
40°	514.1	516.3	531.5	528.5	539.4	532.9	537.7	535.0	541.6	562.6	521.5
42.5°	524.1	526.7	547.3	552.9	566.0	568.2	575.2	575.7	594.9	629.4	571.7
45°	543.3	539.0	566.9	580.9	602.3	608.4	616.7	623.7	653.8	694.5	628.9
47.5°	560.8	554.7	586.6	614.5	640.7	642.0	664.8	672.2	708.0	754.3	685.7
50°	585.3	587.4	601.0	649.0	675.7	691.0	706.7	731.1	770.9	820.2	726.8
52.5°	610.6	608.4	631.1	678.3	720.2	725.9	761.3	788.8	832.0	869.2	745.1
55°	641.6	644.2	653.0	715.0	768.3	781.8	821.6	850.4	897.5	890.1	751.2
57.5°	672.6	670.0	689.6	756.0	828.5	838.6	891.4	908.5	940.4	904.1	735.9
60°	703.2	708.0	716.3	802.3	894.5	909.3	951.3	960.0	967.0	910.7	724.2
62.5°	738.1	726.8	752.5	851.3	953.9	984.9	1018.1	983.6	977.5	898.9	697.1
65°	755.6	759.1	792.7	907.2	1032.9	1055.7	1060.0	1015.5	984.0	872.7	671.7
67.5°	782.7	787.5	830.3	964.4	1114.2	1126.8	1111.1	1044.3	978.3	838.6	580.5
70°	786.2	798.0	880.5	1024.2	1165.3	1176.2	1164.0	1063.5	932.5	704.5	429.8
72.5°	767.8	788.8	892.7	1058.3	1208.1	1235.6	1167.0	995.8	751.7	449.4	220.1
75°	580.0	597.5	817.2	1007.6	1132.1	1138.6	1024.6	760.0	428.0	153.3	56.3
77.5°	300.5	330.6	545.5	770.0	862.6	855.6	713.2	447.7	147.2	40.2	22.7
80°	172.5	179.9	238.5	432.4	542.5	515.8	394.4	193.0	64.6	20.1	14.8
82.5°	85.2	95.7	128.4	193.5	271.2	223.2	148.1	115.7	36.3	10.9	13.1
85°	18.3	19.2	65.5	92.6	110.1	72.5	50.7	97.4	13.1	6.6	12.7
87.5°	13.1	12.7	18.3	41.5	30.6	18.8	30.1	51.1	3.1	3.1	2.6
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°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7	336.7
2.5°	336.7	332.8	328.4	320.1	318.0	316.7	309.2	308.8	307.5	304.4	303.1
5°	327.6	321.0	312.7	304.0	297.0	284.3	269.0	261.2	251.6	252.0	249.0
7.5°	326.3	314.0	302.2	283.9	261.6	238.0	214.5	199.2	188.2	181.7	183.0
10°	320.1	311.0	291.8	257.7	221.9	186.1	155.9	133.2	120.1	110.1	113.1
12.5°	322.8	304.9	277.8	232.4	181.3	137.1	99.6	77.7	68.1	64.6	65.5
15°	321.0	304.9	269.5	204.8	142.4	93.0	64.6	57.7	55.9	55.9	55.0
17.5°	326.3	308.4	255.5	177.8	102.2	62.0	55.5	54.2	52.8	52.8	52.8
20°	333.7	310.1	245.9	147.6	72.1	54.6	52.0	51.1	50.7	50.7	50.2
22.5°	334.1	308.4	228.0	114.4	55.5	51.5	49.4	48.9	48.9	48.0	48.0
25°	336.7	310.1	208.8	86.0	51.5	48.5	46.7	46.3	46.7	46.3	45.9
27.5°	343.3	313.2	189.6	62.9	48.5	45.9	44.5	44.1	44.1	44.1	43.2
30°	351.6	313.2	168.2	52.0	45.9	43.2	41.9	41.5	41.1	41.1	41.1
32.5°	369.1	323.2	141.9	46.3	42.4	40.2	38.9	38.9	38.4	38.4	38.0
35°	390.9	330.2	115.3	42.8	39.3	37.1	35.8	35.8	35.4	35.4	34.9
37.5°	418.0	347.7	88.2	40.2	36.3	34.1	32.8	32.8	32.8	32.3	32.3
40°	456.4	365.6	65.5	36.7	33.2	31.0	30.1	29.7	29.3	29.3	28.4
42.5°	497.5	393.1	48.9	34.1	30.6	28.8	27.5	26.2	26.2	24.9	24.9
45°	542.0	417.1	39.7	31.0	28.0	25.8	24.5	23.6	22.3	21.4	21.4
47.5°	585.7	432.0	34.9	27.5	25.3	23.6	22.3	20.5	18.8	18.3	17.9
50°	621.1	436.3	31.0	24.9	23.1	21.4	19.7	17.5	15.7	14.8	14.4
52.5°	621.1	412.3	28.0	22.3	21.0	19.2	17.0	14.4	12.2	11.4	10.9
55°	621.1	374.3	24.9	20.5	18.8	17.5	14.4	11.8	9.6	8.3	7.9
57.5°	611.9	328.4	22.3	18.3	16.6	14.8	12.2	9.2	7.0	5.7	5.7
60°	586.6	280.4	19.2	16.2	14.4	12.2	9.6	6.6	4.4	3.1	3.1
62.5°	554.3	223.2	16.6	13.5	11.8	10.0	7.4	4.4	1.7	0.9	0.9
65°	497.9	164.7	14.4	11.4	9.2	7.4	4.8	1.7	0.0	0.0	0.0
67.5°	411.0	110.1	11.4	9.2	7.9	5.2	3.1	0.4	0.0	0.0	0.0
70°	289.1	62.5	8.7	6.6	5.7	3.5	0.9	0.0	0.0	0.0	0.0
72.5°	118.8	27.5	6.1	4.8	3.9	1.7	0.0	0.0	0.0	0.0	0.0
75°	32.3	12.2	3.9	2.6	2.2	0.4	0.0	0.0	0.0	0.0	0.0
77.5°	18.8	8.3	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.8	3.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)