

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: P677039

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677039
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-830-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

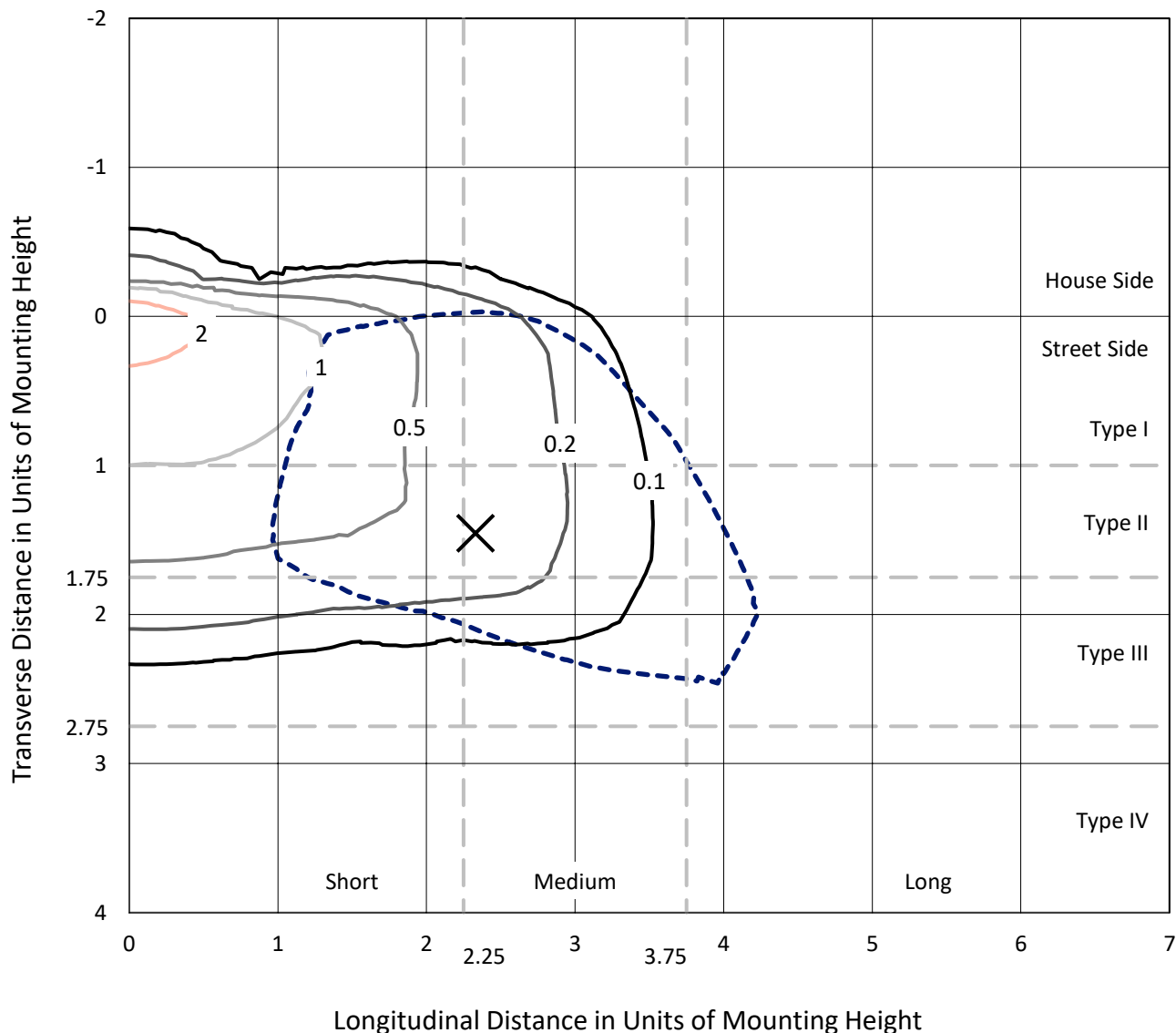
Lumens per Lamp: N/A
Luminaire Lumens: 2267.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
Input Current (A_{in}): 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

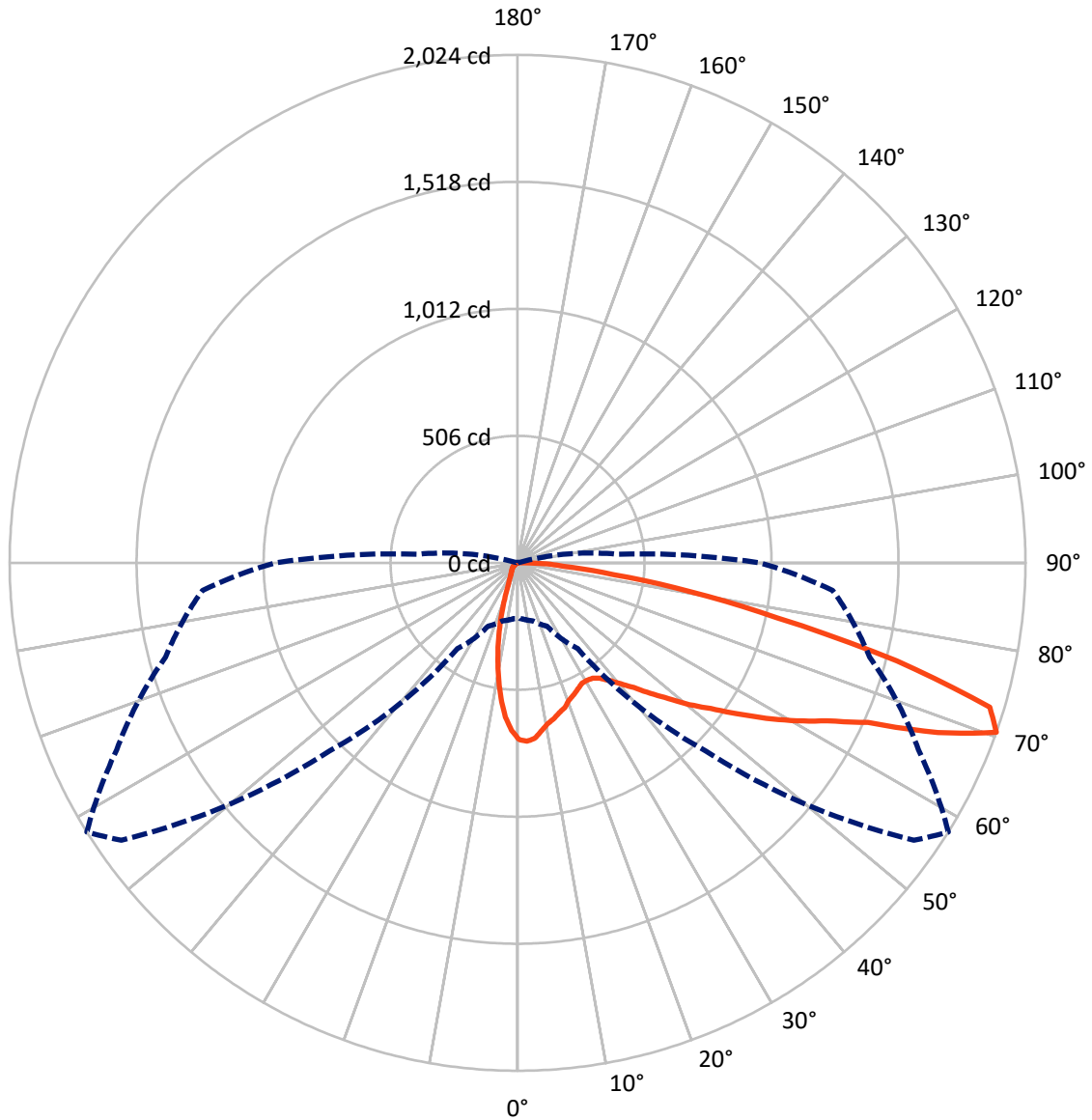
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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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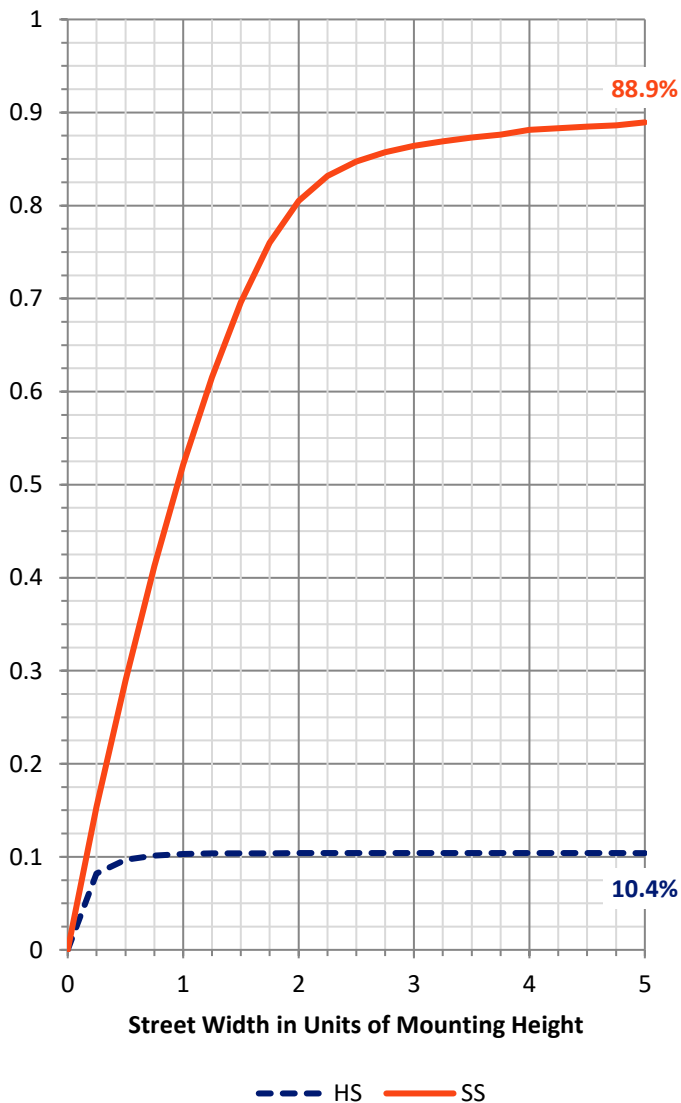
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	237.5	0.0	237.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2030.2	0.0	2030.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	2267.7	0.0	2267.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	2.5
10°-20°	119.6	5.3
20°-30°	160.1	7.1
30°-40°	216.4	9.5
40°-50°	310.6	13.7
50°-60°	457.8	20.2
60°-70°	558.4	24.6
70°-80°	341.0	15.0
80°-90°	46.3	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°	2267.7	100.0
0°-180°	2267.7	100.0

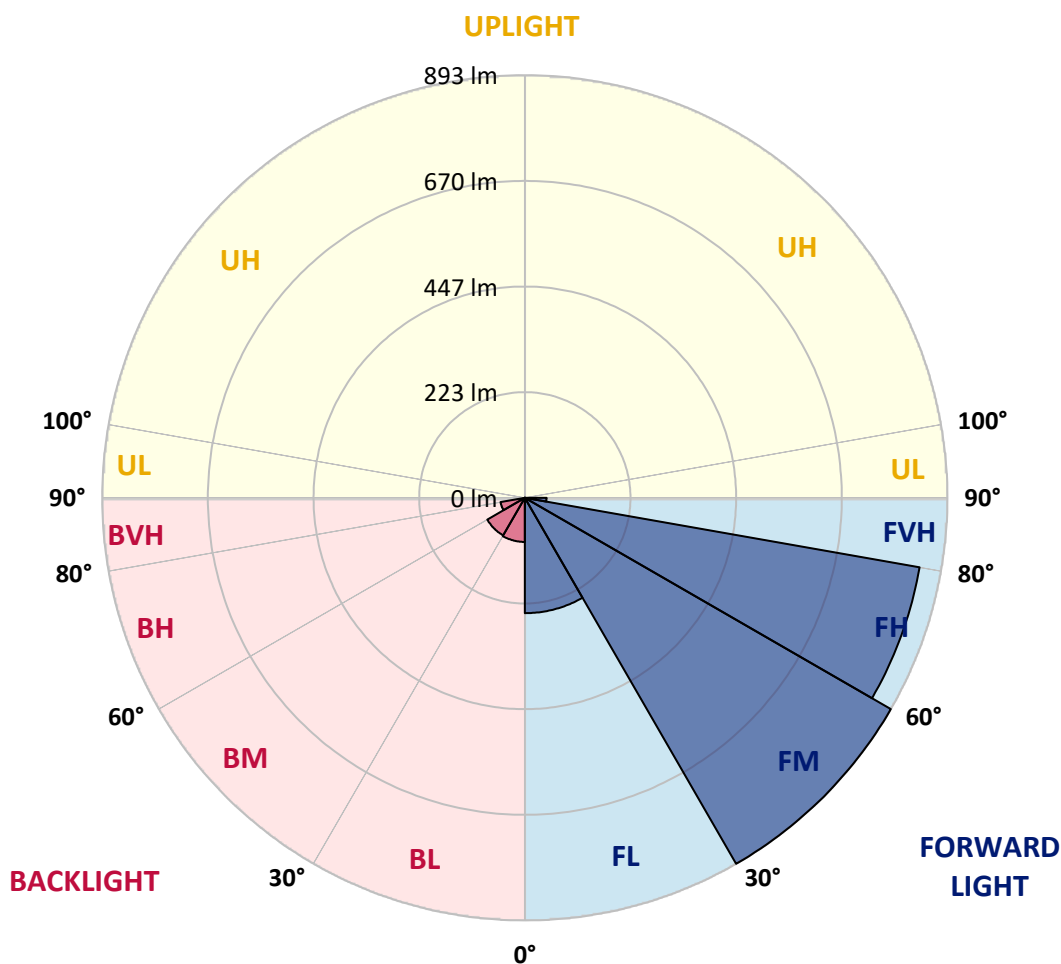


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.8	10.8			
FM (30°-60°)	893.2	39.4			
FH (60°-80°)	847.3	37.4			G1/1800
FVH (80°-90°)	45.9	2.0			G1/100
BL (0°-30°)	93.3	4.1	B0/110		
BM (30°-60°)	91.7	4.0	B0/220		
BH (60°-80°)	52.0	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°	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
2.5°	716.7	719.4	713.0	720.4	713.5	716.7	713.0	711.9	712.5	713.0	708.7
5°	683.2	689.6	692.3	688.0	698.1	696.5	702.9	703.4	700.8	698.1	698.6
7.5°	639.1	645.5	648.1	650.8	660.9	674.2	682.7	677.4	681.6	691.2	676.8
10°	607.2	605.6	605.1	610.4	629.5	640.7	655.0	653.4	664.1	673.1	661.4
12.5°	567.8	564.7	574.2	578.5	595.5	615.2	626.3	638.0	648.7	658.2	644.9
15°	538.6	541.3	545.0	554.0	566.3	592.3	608.8	620.0	639.1	643.9	638.6
17.5°	515.2	517.3	522.7	527.4	542.9	567.8	593.9	607.2	627.4	640.2	623.7
20°	515.7	509.4	509.4	514.1	522.7	552.4	580.1	584.3	612.0	633.8	622.6
22.5°	516.3	514.1	509.4	508.8	512.5	533.8	562.0	571.6	601.3	626.9	613.6
25°	523.7	515.7	516.3	508.8	510.4	521.1	543.4	557.7	591.8	630.6	608.8
27.5°	530.1	533.8	526.4	523.2	514.1	513.6	532.2	544.5	587.0	639.1	612.0
30°	544.5	547.1	547.1	545.0	536.5	524.2	528.5	543.9	577.4	637.5	606.7
32.5°	568.4	563.6	570.0	566.8	555.6	536.5	540.2	548.2	583.3	657.7	615.2
35°	576.4	580.1	588.6	581.7	577.9	566.8	559.3	565.2	591.8	677.9	627.9
37.5°	600.8	595.5	601.3	616.8	620.5	600.3	585.9	594.4	623.7	701.8	639.6
40°	602.9	607.2	617.8	648.1	651.9	643.3	631.6	633.8	655.6	732.7	668.9
42.5°	613.6	618.4	640.2	665.7	685.9	687.5	679.0	679.0	697.6	782.1	701.3
45°	634.3	626.3	654.5	697.6	726.8	732.7	743.8	741.2	756.1	834.2	761.9
47.5°	642.3	644.9	675.8	727.9	761.4	788.5	807.1	807.6	815.1	900.7	840.6
50°	668.3	667.8	705.0	753.4	802.9	852.3	888.5	888.5	887.9	965.5	908.1
52.5°	702.9	701.8	730.5	788.0	852.3	914.5	962.4	964.0	976.2	1045.3	985.8
55°	759.3	754.5	782.1	824.7	901.7	977.2	1060.2	1060.7	1051.2	1102.2	1041.6
57.5°	806.6	806.0	828.9	869.8	957.0	1058.1	1154.3	1168.7	1138.3	1160.7	1086.2
60°	794.3	801.3	848.6	909.2	1015.5	1159.1	1255.9	1278.2	1229.8	1200.6	1119.7
62.5°	718.3	734.3	785.8	882.6	1065.0	1305.8	1395.7	1385.6	1277.7	1234.6	1160.7
65°	516.8	532.8	596.6	741.7	1007.6	1409.5	1579.7	1533.9	1362.7	1285.1	1215.4
67.5°	304.1	310.5	350.4	473.2	753.4	1353.2	1803.0	1806.7	1530.2	1362.7	1310.1
70°	219.6	224.4	239.8	279.1	417.4	1060.7	1927.4	2024.1	1762.6	1452.0	1260.1
72.5°	168.5	168.5	194.6	232.3	265.8	635.4	1773.7	1967.8	1813.1	1366.4	1015.5
75°	121.2	124.4	152.6	199.9	245.1	319.0	1306.9	1561.6	1536.6	1107.5	709.3
77.5°	69.7	71.2	107.4	167.5	230.2	219.1	807.6	1058.6	1088.4	693.3	307.3
80°	35.6	36.7	60.1	132.4	208.4	190.9	481.7	697.0	591.2	201.5	71.2
82.5°	17.5	17.5	27.1	84.5	177.1	169.1	283.4	384.9	209.5	46.3	29.8
85°	5.8	6.4	12.2	47.9	128.1	102.1	173.3	182.9	70.2	17.5	16.5
87.5°	1.6	2.1	3.2	17.5	55.8	67.0	103.1	117.0	28.7	6.9	8.0
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°	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
2.5°	692.8	689.1	684.8	674.2	665.7	654.5	647.1	641.2	630.1	632.2	627.4
5°	685.9	679.0	654.5	631.1	609.8	577.4	555.1	540.7	529.0	517.3	525.8
7.5°	673.7	657.2	618.9	575.3	530.1	487.6	445.0	419.5	400.9	383.9	383.3
10°	652.9	626.3	566.3	509.4	439.7	383.9	329.6	287.1	259.5	239.3	238.7
12.5°	629.5	601.9	526.4	433.9	353.6	274.9	210.0	164.8	138.8	122.8	120.7
15°	614.6	574.2	476.4	366.9	267.4	179.2	116.4	88.3	78.2	74.4	74.4
17.5°	595.5	549.2	426.9	297.2	185.6	103.7	75.5	68.1	67.5	66.5	65.4
20°	587.5	530.1	382.8	237.1	117.5	73.4	64.9	63.3	63.3	62.2	61.1
22.5°	566.3	502.4	336.0	173.9	78.2	64.3	61.1	59.0	58.0	56.9	58.0
25°	556.7	482.8	291.9	120.2	63.8	57.4	55.8	53.7	52.1	51.6	51.6
27.5°	550.3	463.1	248.8	83.5	56.4	52.6	49.4	47.9	45.7	43.6	43.6
30°	545.5	447.7	207.4	61.7	50.5	46.8	44.1	40.4	37.8	35.6	35.6
32.5°	539.1	429.6	165.9	52.6	45.7	42.0	37.2	34.0	30.3	28.7	28.7
35°	541.3	417.4	130.3	46.8	40.9	36.2	31.9	27.6	23.9	22.3	21.8
37.5°	545.5	408.3	98.9	42.0	36.7	31.4	26.6	21.8	19.7	17.5	17.5
40°	563.6	405.7	72.8	38.8	33.5	27.6	22.3	18.1	16.0	14.4	13.8
42.5°	593.9	409.4	56.4	35.1	30.3	23.4	18.6	14.9	12.8	11.2	10.6
45°	632.7	423.8	46.3	33.0	26.6	19.7	14.9	12.2	9.6	8.5	8.5
47.5°	689.1	446.1	40.4	30.3	23.4	16.5	12.8	9.6	7.4	6.4	6.4
50°	752.9	471.6	35.6	27.1	20.2	13.8	10.1	7.4	5.3	4.8	4.8
52.5°	816.7	504.0	33.0	25.0	17.5	11.2	8.0	5.3	3.7	3.2	3.2
55°	883.7	532.8	29.8	23.4	14.4	9.0	5.8	3.2	2.1	1.6	1.6
57.5°	930.5	543.9	26.1	20.2	11.2	6.9	4.3	2.1	1.1	0.5	0.5
60°	964.0	545.5	22.3	16.5	8.5	5.3	2.7	1.1	0.5	0.0	0.0
62.5°	992.1	548.7	19.1	12.8	6.4	3.7	1.6	0.5	0.0	0.0	0.0
65°	1048.0	546.0	15.4	10.1	4.3	2.1	1.1	0.0	0.0	0.0	0.0
67.5°	1092.1	519.5	12.2	6.9	2.7	1.1	0.5	0.0	0.0	0.0	0.0
70°	966.1	396.1	9.6	4.8	1.6	0.5	0.0	0.0	0.0	0.0	0.0
72.5°	758.7	264.3	6.4	2.7	1.1	0.5	0.0	0.0	0.0	0.0	0.0
75°	497.7	131.3	4.8	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	193.5	34.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	46.8	11.7	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.2	4.3	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	1.1	0.5	0.5	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)