

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: P676773

Luminaire Tested: **CCW-SA-1B-840-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676773
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-840-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

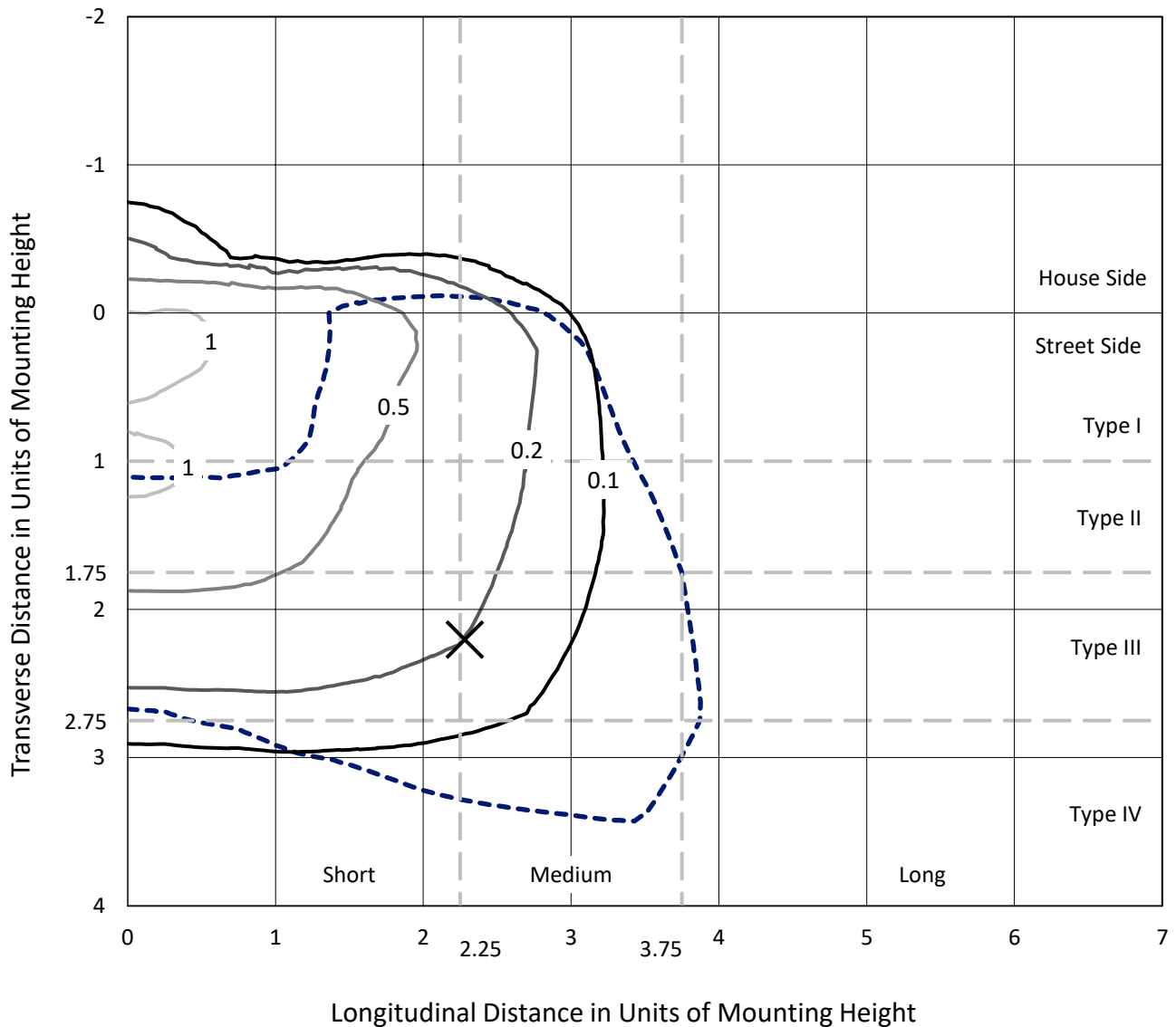
Lumens per Lamp: N/A
Luminaire Lumens: 2124.4 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

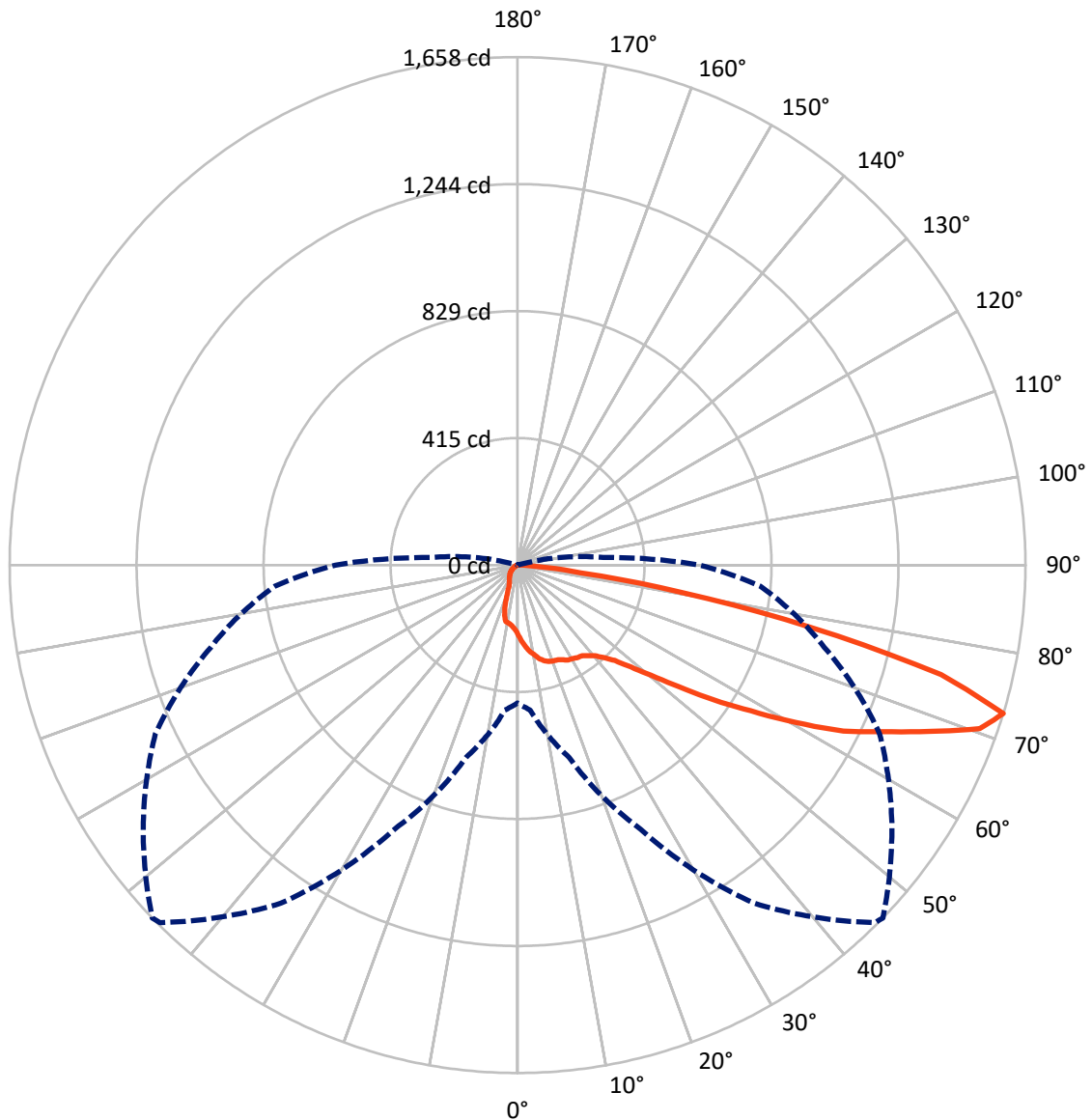
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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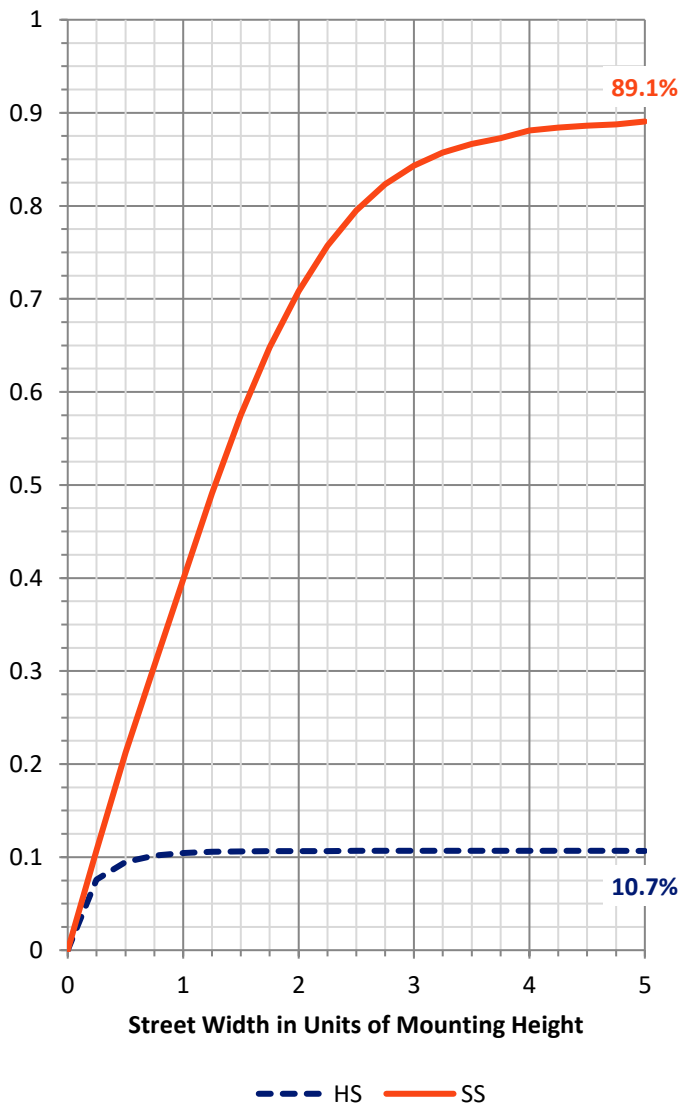
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	228.7	0.0	228.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1895.7	0.0	1895.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	2124.4	0.0	2124.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	1.1
10°-20°	68.6	3.2
20°-30°	107.4	5.1
30°-40°	150.4	7.1
40°-50°	248.0	11.7
50°-60°	445.8	21.0
60°-70°	646.2	30.4
70°-80°	403.3	19.0
80°-90°	32.0	1.5
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°	2124.4	100.0
0°-180°	2124.4	100.0



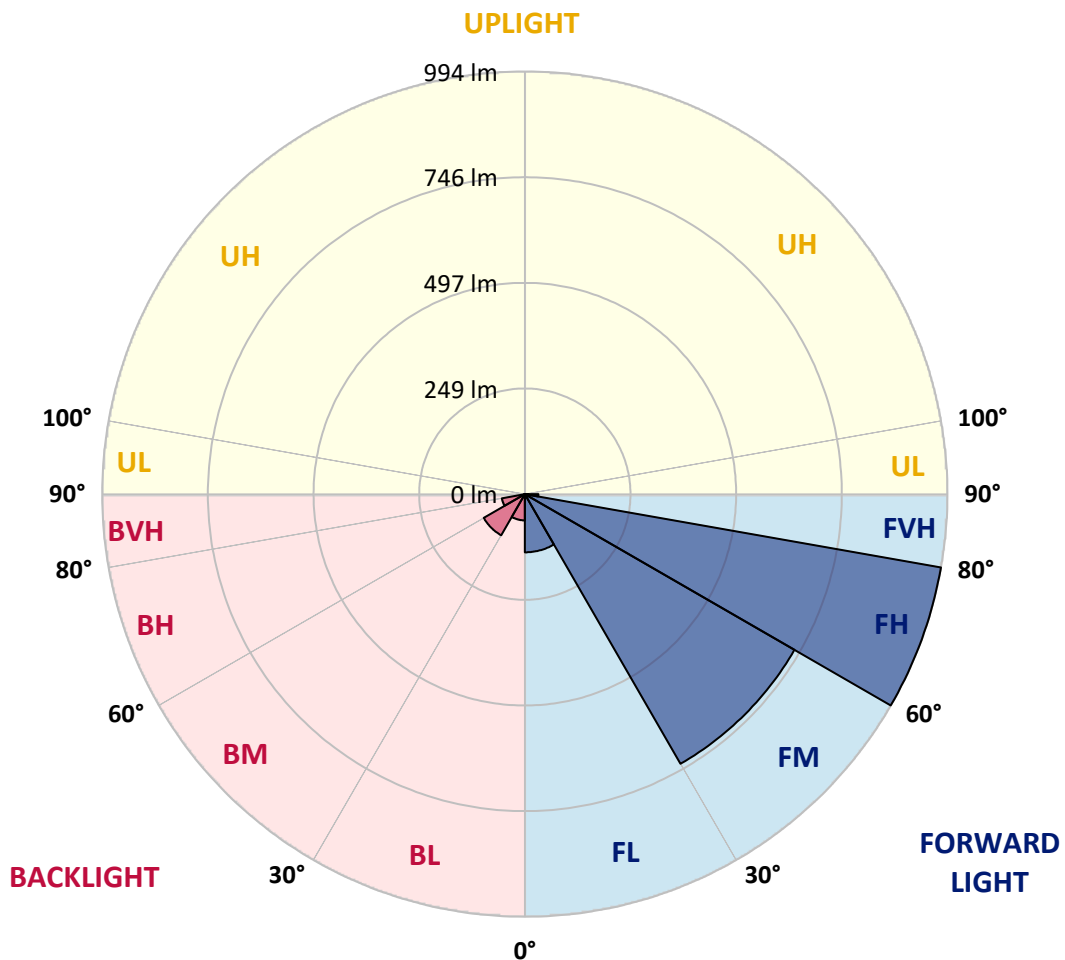
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.9	6.4			
FM (30°-60°)	732.5	34.5			
FH (60°-80°)	994.4	46.8			G1/1800
FVH (80°-90°)	31.8	1.5			G1/100
BL (0°-30°)	61.8	2.9	B0/110		
BM (30°-60°)	111.7	5.3	B0/220		
BH (60°-80°)	55.0	2.6	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°	46°	55°	65°	75°	85°
0°	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
2.5°	254.1	253.1	254.7	254.1	247.6	248.7	248.2	243.8	236.3	231.9	229.2
5°	283.4	286.1	283.9	279.1	275.3	267.7	266.6	259.6	247.6	240.1	231.9
7.5°	313.8	313.8	309.4	301.8	293.7	285.6	284.5	272.6	262.3	249.3	237.9
10°	336.5	333.8	330.5	322.4	313.2	302.4	297.0	288.3	276.9	261.2	246.6
12.5°	356.6	352.2	346.8	334.9	324.0	312.1	313.2	299.1	291.5	277.4	255.8
15°	367.9	364.1	359.3	348.4	331.6	326.2	324.0	315.4	301.8	287.7	267.1
17.5°	370.6	367.9	361.4	347.3	338.1	331.6	331.1	320.8	314.8	302.9	280.2
20°	365.2	360.4	355.5	346.3	337.6	335.4	333.8	333.8	326.2	310.5	288.3
22.5°	356.0	350.6	347.9	342.5	335.4	334.9	336.0	334.9	328.9	318.6	297.0
25°	349.0	346.3	341.9	340.3	336.0	344.1	342.5	340.8	339.2	327.3	310.5
27.5°	351.1	350.6	347.3	340.8	337.6	346.3	351.1	351.7	351.1	339.2	323.0
30°	352.2	349.5	346.3	344.6	345.7	354.4	354.4	366.3	361.4	349.5	335.4
32.5°	364.7	363.1	352.2	348.4	349.0	359.3	359.8	371.7	370.1	362.0	346.3
35°	391.2	380.4	364.7	353.9	353.9	367.4	363.1	380.4	384.7	371.7	353.9
37.5°	430.8	422.7	394.5	370.1	360.9	370.6	375.0	384.7	397.7	386.4	369.0
40°	509.4	507.7	467.6	415.1	378.8	387.4	389.1	404.2	412.9	397.2	392.3
42.5°	624.3	616.1	578.7	495.8	411.3	407.5	413.5	423.2	443.8	430.8	418.9
45°	736.4	732.6	695.2	602.6	470.4	447.6	444.3	461.7	492.0	477.9	468.7
47.5°	817.7	810.1	789.0	711.0	557.1	494.7	496.9	514.2	552.7	541.9	544.6
50°	880.0	876.2	854.0	811.2	666.5	569.0	564.6	582.0	634.0	641.0	648.6
52.5°	948.3	955.3	925.5	889.2	796.0	668.7	658.9	664.9	732.1	748.3	769.5
55°	1013.9	1025.2	995.4	990.6	931.5	779.2	777.6	763.5	850.2	852.4	863.8
57.5°	1056.7	1052.9	1050.7	1077.3	1067.0	906.0	897.9	883.8	962.4	948.3	982.4
60°	1059.9	1070.8	1107.1	1172.6	1191.1	1055.0	1043.1	1004.7	1059.4	1025.8	1090.8
62.5°	1084.3	1093.0	1160.2	1250.7	1274.5	1186.2	1194.3	1096.8	1142.3	1115.7	1211.1
65°	1022.5	1049.6	1184.6	1311.4	1384.0	1318.9	1310.8	1215.4	1227.4	1202.4	1329.8
67.5°	966.7	977.0	1117.9	1329.8	1470.7	1452.3	1449.0	1320.6	1315.2	1269.1	1363.4
70°	785.7	798.2	937.5	1235.5	1499.9	1607.8	1600.2	1468.0	1374.8	1232.8	1191.1
72.5°	450.3	475.2	649.7	951.5	1347.7	1651.1	1658.2	1491.8	1304.3	1036.6	795.5
75°	147.4	154.4	269.9	539.2	1007.9	1440.3	1427.9	1282.1	1052.3	684.4	359.3
77.5°	49.9	50.9	79.7	195.1	558.7	973.2	980.3	916.3	646.5	284.5	99.2
80°	25.5	27.1	39.0	73.2	229.8	530.0	541.3	522.4	270.9	84.0	23.8
82.5°	11.9	12.5	22.8	40.6	105.1	208.1	208.1	228.7	95.9	47.1	9.8
85°	4.3	4.3	11.9	23.3	44.4	69.4	69.9	70.4	50.4	35.2	4.3
87.5°	1.6	1.6	6.0	9.8	16.3	21.1	21.1	16.8	25.5	23.3	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°	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
2.5°	228.1	224.9	222.2	218.4	213.5	210.8	211.3	208.1	208.1	206.5	205.9
5°	228.1	224.9	217.8	211.3	207.0	201.6	198.9	196.7	196.7	195.6	196.2
7.5°	229.8	224.9	215.1	206.5	199.4	194.0	189.7	189.1	188.0	185.3	187.5
10°	239.5	232.5	216.2	204.3	196.2	190.2	182.6	180.4	177.2	172.3	172.9
12.5°	247.6	238.4	223.8	207.5	197.2	187.5	170.2	151.2	143.1	134.4	134.9
15°	259.6	246.6	226.5	211.9	197.2	165.8	134.4	110.0	97.0	90.5	90.5
17.5°	266.1	255.2	234.1	214.6	181.5	134.9	95.4	74.2	72.1	73.2	73.2
20°	279.6	265.0	242.8	216.8	155.5	95.9	69.9	67.7	68.8	71.0	70.4
22.5°	288.3	273.7	249.3	207.0	120.3	68.8	65.6	64.5	65.6	68.3	68.3
25°	295.3	286.1	259.6	183.2	85.1	62.3	61.2	62.3	63.4	64.5	66.1
27.5°	312.7	297.0	266.6	152.3	61.2	58.0	59.1	59.6	59.6	61.2	61.8
30°	324.0	311.6	272.0	117.6	54.2	53.6	54.7	55.3	55.8	57.4	58.0
32.5°	334.9	330.5	265.0	79.7	50.9	49.9	49.3	49.9	52.0	53.6	53.1
35°	350.6	347.9	254.7	55.3	47.7	45.5	44.4	45.0	46.6	48.2	47.7
37.5°	369.6	372.3	229.8	48.2	44.4	41.7	39.6	39.6	40.1	41.7	42.3
40°	391.8	398.8	200.5	45.0	42.3	39.0	36.8	34.1	33.6	33.1	33.6
42.5°	432.4	440.6	167.4	42.8	39.0	35.2	32.0	28.7	26.0	24.4	24.4
45°	489.3	482.8	124.1	40.6	37.4	32.0	27.1	23.3	19.5	17.9	17.9
47.5°	567.9	545.7	85.1	38.5	34.7	28.2	22.8	17.9	14.6	13.0	13.0
50°	676.8	603.7	55.3	36.3	33.1	24.4	18.4	13.0	10.8	10.3	10.8
52.5°	779.8	662.7	43.9	33.6	29.8	21.1	14.1	10.8	9.8	9.2	9.2
55°	874.6	692.5	39.0	30.9	27.1	17.3	11.9	9.2	8.7	8.1	8.1
57.5°	954.8	702.8	33.6	27.1	21.7	13.5	9.8	8.1	7.0	6.5	6.5
60°	1024.2	705.5	26.0	21.7	15.7	10.3	8.1	7.0	6.0	4.9	4.9
62.5°	1079.4	686.6	18.4	15.2	10.8	8.1	7.0	4.9	3.3	2.2	1.6
65°	1123.3	648.6	12.5	10.3	7.0	6.0	4.3	2.2	0.5	0.0	0.0
67.5°	1071.8	562.5	9.8	7.6	4.9	3.8	2.2	0.5	0.0	0.0	0.0
70°	874.1	436.2	7.0	4.9	3.3	1.1	0.5	0.0	0.0	0.0	0.0
72.5°	595.0	281.2	5.4	3.3	1.6	0.5	0.0	0.0	0.0	0.0	0.0
75°	267.1	100.8	3.8	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	65.0	23.8	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.3	6.0	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	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)