

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: P676729

Luminaire Tested: **CCW-SA-1B-760-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676729
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-760-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) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2548.8 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

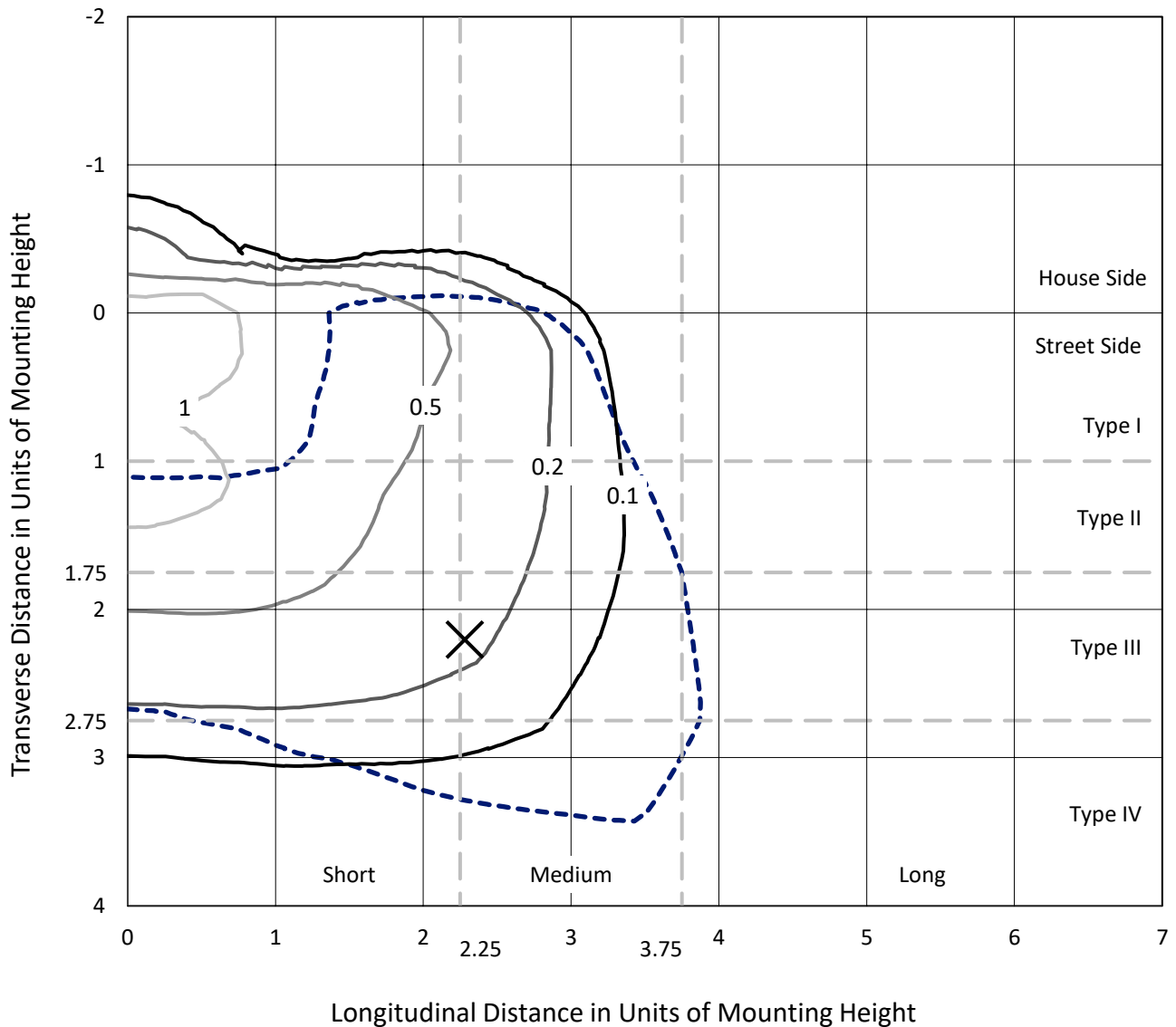
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

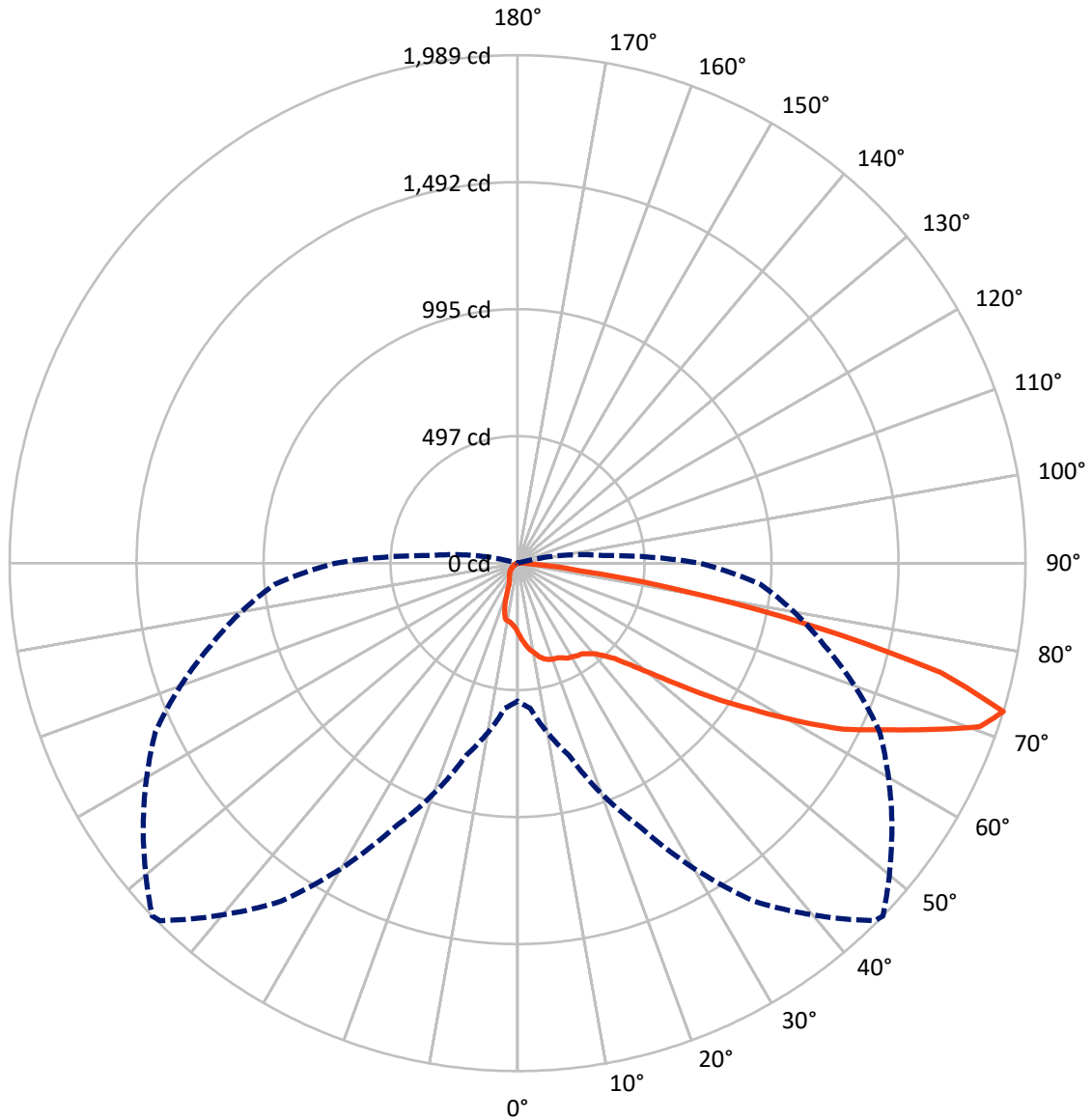
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 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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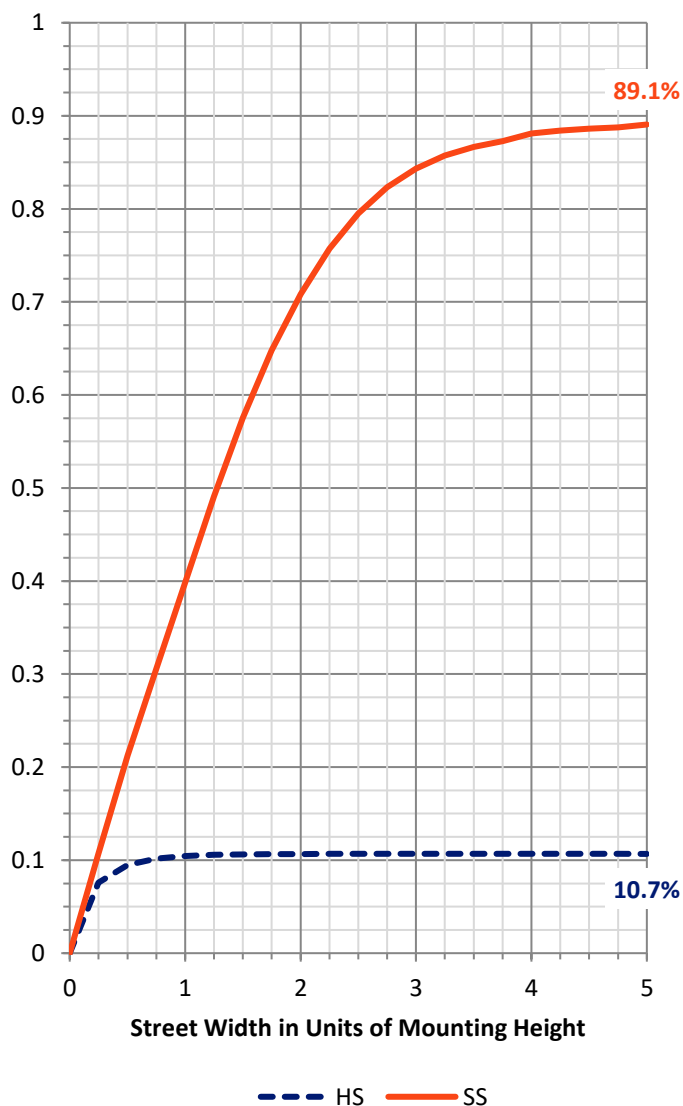
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	274.4	0.0	274.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2274.4	0.0	2274.4
	% Fixture	89.2	0.0	89.2
Total	Lumens	2548.8	0.0	2548.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	1.1
10°-20°	82.3	3.2
20°-30°	128.9	5.1
30°-40°	180.5	7.1
40°-50°	297.6	11.7
50°-60°	534.9	21.0
60°-70°	775.2	30.4
70°-80°	483.8	19.0
80°-90°	38.4	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°	2548.8	100.0
0°-180°	2548.8	100.0

Coefficient of Utilization



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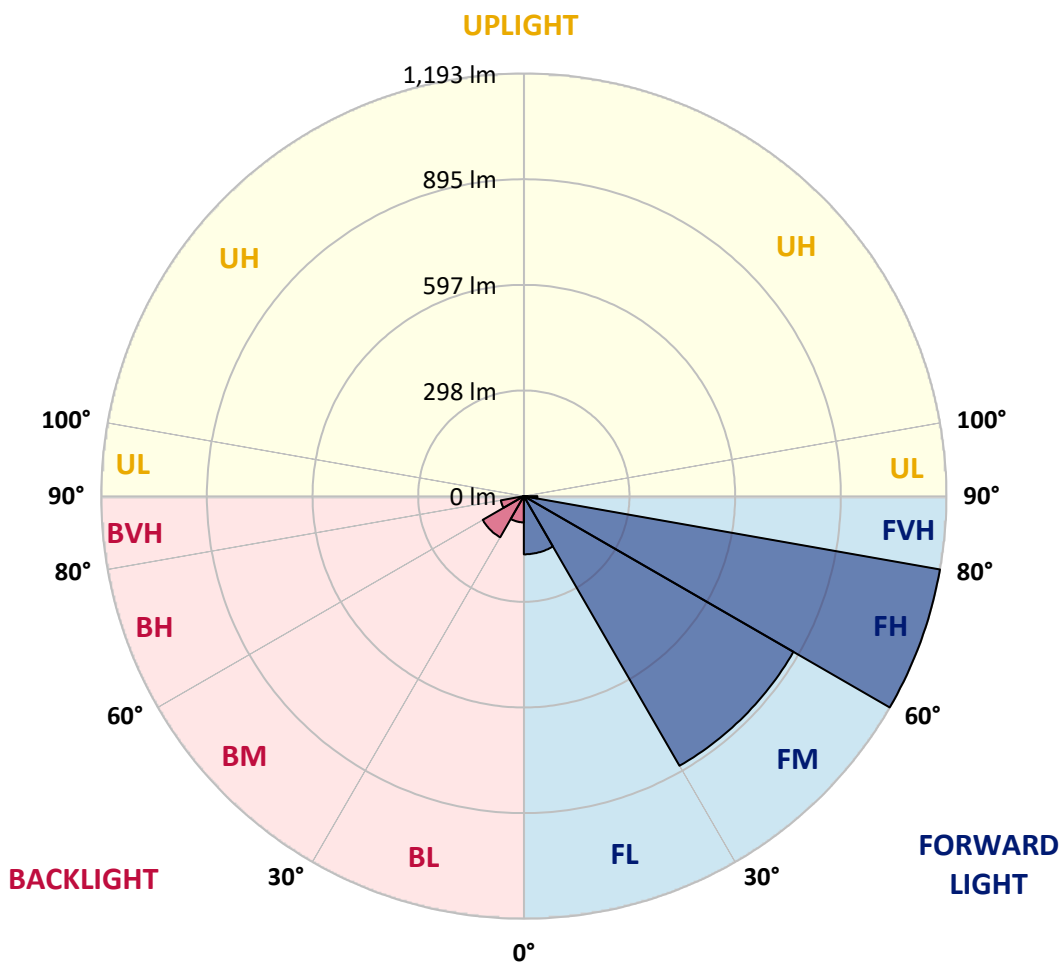
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	164.3	6.4			
FM (30°-60°)	878.9	34.5			
FH (60°-80°)	1193.1	46.8			G1/1800
FVH (80°-90°)	38.2	1.5			G1/100
BL (0°-30°)	74.2	2.9	B0/110		
BM (30°-60°)	134.1	5.3	B0/220		
BH (60°-80°)	66.0	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°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	304.9	303.6	305.6	304.9	297.1	298.4	297.8	292.6	283.5	278.3	275.0
5°	340.0	343.3	340.7	334.8	330.3	321.2	319.9	311.4	297.1	288.0	278.3
7.5°	376.4	376.4	371.2	362.1	352.4	342.6	341.3	327.0	314.7	299.1	285.4
10°	403.7	400.5	396.6	386.8	375.8	362.8	356.3	345.9	332.2	313.4	295.8
12.5°	427.8	422.6	416.1	401.8	388.8	374.5	375.8	358.9	349.8	332.9	306.9
15°	441.4	436.9	431.0	418.0	397.9	391.4	388.8	378.4	362.1	345.2	320.5
17.5°	444.7	441.4	433.6	416.7	405.7	397.9	397.2	384.9	377.7	363.4	336.1
20°	438.2	432.3	426.5	415.4	405.0	402.4	400.5	400.5	391.4	372.5	345.9
22.5°	427.1	420.6	417.4	410.9	402.4	401.8	403.1	401.8	394.6	382.3	356.3
25°	418.7	415.4	410.2	408.3	403.1	412.8	410.9	408.9	407.0	392.7	372.5
27.5°	421.3	420.6	416.7	408.9	405.0	415.4	421.3	421.9	421.3	407.0	387.5
30°	422.6	419.3	415.4	413.5	414.8	425.2	425.2	439.5	433.6	419.3	402.4
32.5°	437.5	435.6	422.6	418.0	418.7	431.0	431.7	446.0	444.0	434.3	415.4
35°	469.4	456.4	437.5	424.5	424.5	440.8	435.6	456.4	461.6	446.0	424.5
37.5°	516.8	507.1	473.3	444.0	433.0	444.7	449.9	461.6	477.2	463.5	442.7
40°	611.1	609.2	561.1	498.0	454.4	464.8	466.8	485.0	495.4	476.5	470.7
42.5°	748.9	739.2	694.3	594.9	493.4	488.9	496.0	507.7	532.4	516.8	502.5
45°	883.5	879.0	834.1	722.9	564.3	537.0	533.1	553.9	590.3	573.4	562.4
47.5°	981.0	971.9	946.6	853.0	668.3	593.6	596.2	617.0	663.1	650.1	653.4
50°	1055.8	1051.2	1024.6	973.2	799.6	682.6	677.4	698.2	760.6	769.1	778.2
52.5°	1137.7	1146.2	1110.4	1066.8	955.0	802.3	790.5	797.7	878.3	897.8	923.2
55°	1216.4	1230.0	1194.3	1188.4	1117.6	934.9	932.9	916.0	1020.0	1022.6	1036.3
57.5°	1267.7	1263.2	1260.6	1292.4	1280.1	1087.0	1077.3	1060.3	1154.6	1137.7	1178.7
60°	1271.6	1284.6	1328.2	1406.9	1429.0	1265.8	1251.5	1205.3	1271.0	1230.7	1308.7
62.5°	1300.9	1311.3	1391.9	1500.5	1529.1	1423.1	1432.9	1315.8	1370.5	1338.6	1453.0
65°	1226.8	1259.3	1421.2	1573.3	1660.4	1582.4	1572.6	1458.2	1472.5	1442.6	1595.4
67.5°	1159.8	1172.2	1341.2	1595.4	1764.4	1742.3	1738.4	1584.3	1577.8	1522.6	1635.7
70°	942.7	957.6	1124.7	1482.3	1799.5	1928.9	1919.8	1761.2	1649.4	1479.0	1429.0
72.5°	540.3	570.2	779.5	1141.6	1616.9	1980.9	1989.4	1789.8	1564.8	1243.7	954.4
75°	176.8	185.3	323.8	646.9	1209.2	1728.0	1713.1	1538.2	1262.5	821.1	431.0
77.5°	59.8	61.1	95.6	234.0	670.3	1167.6	1176.1	1099.4	775.6	341.3	119.0
80°	30.6	32.5	46.8	87.8	275.7	635.8	649.5	626.7	325.1	100.8	28.6
82.5°	14.3	15.0	27.3	48.8	126.1	249.6	249.6	274.4	115.1	56.6	11.7
85°	5.2	5.2	14.3	28.0	53.3	83.2	83.9	84.5	60.5	42.3	5.2
87.5°	2.0	2.0	7.2	11.7	19.5	25.4	25.4	20.2	30.6	28.0	2.0
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°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	273.7	269.8	266.5	262.0	256.1	252.9	253.5	249.6	249.6	247.7	247.0
5°	273.7	269.8	261.3	253.5	248.3	241.8	238.6	236.0	236.0	234.7	235.3
7.5°	275.7	269.8	258.1	247.7	239.2	232.7	227.5	226.9	225.6	222.3	224.9
10°	287.4	278.9	259.4	245.1	235.3	228.2	219.1	216.5	212.6	206.7	207.4
12.5°	297.1	286.1	268.5	249.0	236.6	224.9	204.1	181.4	171.6	161.2	161.9
15°	311.4	295.8	271.8	254.2	236.6	198.9	161.2	132.0	116.4	108.6	108.6
17.5°	319.2	306.2	280.9	257.4	217.8	161.9	114.4	89.1	86.5	87.8	87.8
20°	335.5	317.9	291.3	260.0	186.6	115.1	83.9	81.3	82.6	85.2	84.5
22.5°	345.9	328.3	299.1	248.3	144.3	82.6	78.7	77.4	78.7	81.9	81.9
25°	354.3	343.3	311.4	219.7	102.1	74.8	73.5	74.8	76.1	77.4	79.3
27.5°	375.1	356.3	319.9	182.7	73.5	69.6	70.9	71.5	71.5	73.5	74.1
30°	388.8	373.8	326.4	141.1	65.0	64.4	65.7	66.3	67.0	68.9	69.6
32.5°	401.8	396.6	317.9	95.6	61.1	59.8	59.2	59.8	62.4	64.4	63.7
35°	420.6	417.4	305.6	66.3	57.2	54.6	53.3	54.0	55.9	57.9	57.2
37.5°	443.4	446.6	275.7	57.9	53.3	50.1	47.5	47.5	48.1	50.1	50.7
40°	470.0	478.5	240.5	54.0	50.7	46.8	44.2	41.0	40.3	39.7	40.3
42.5°	518.8	528.5	200.9	51.4	46.8	42.3	38.4	34.5	31.2	29.3	29.3
45°	587.1	579.3	148.9	48.8	44.9	38.4	32.5	28.0	23.4	21.5	21.5
47.5°	681.3	654.7	102.1	46.2	41.6	33.8	27.3	21.5	17.6	15.6	15.6
50°	812.0	724.2	66.3	43.6	39.7	29.3	22.1	15.6	13.0	12.4	13.0
52.5°	935.5	795.1	52.7	40.3	35.8	25.4	16.9	13.0	11.7	11.1	11.1
55°	1049.3	830.9	46.8	37.1	32.5	20.8	14.3	11.1	10.4	9.8	9.8
57.5°	1145.5	843.2	40.3	32.5	26.0	16.3	11.7	9.8	8.5	7.8	7.8
60°	1228.7	846.5	31.2	26.0	18.9	12.4	9.8	8.5	7.2	5.9	5.9
62.5°	1295.0	823.7	22.1	18.2	13.0	9.8	8.5	5.9	3.9	2.6	2.0
65°	1347.7	778.2	15.0	12.4	8.5	7.2	5.2	2.6	0.7	0.0	0.0
67.5°	1285.9	674.8	11.7	9.1	5.9	4.6	2.6	0.7	0.0	0.0	0.0
70°	1048.6	523.3	8.5	5.9	3.9	1.3	0.7	0.0	0.0	0.0	0.0
72.5°	713.8	337.4	6.5	3.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0
75°	320.5	120.9	4.6	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	78.0	28.6	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.8	7.2	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.7	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)