

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: P676598

Luminaire Tested: **CCW-SA-1D-827-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676598
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-827-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

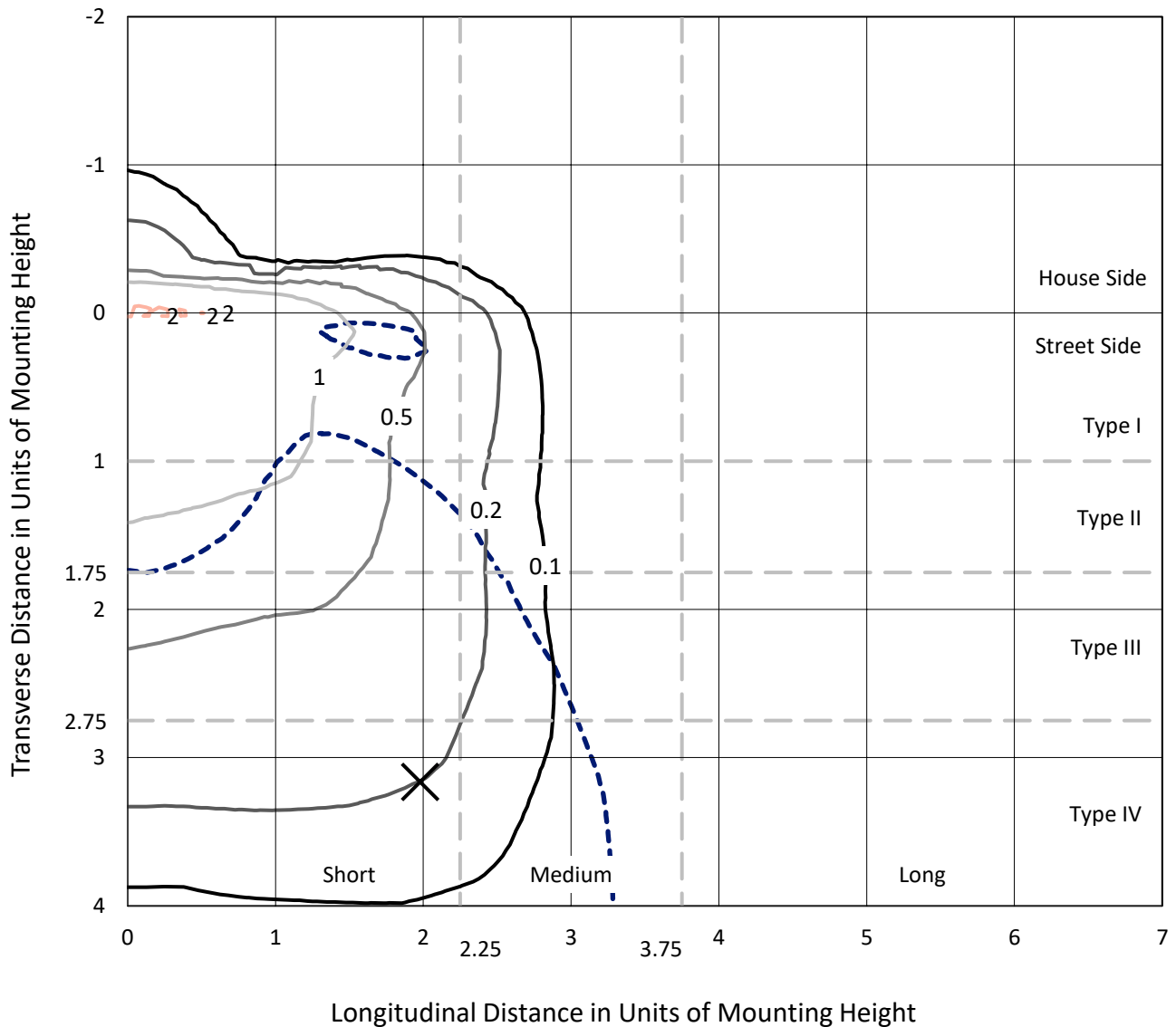
Lumens per Lamp: N/A
Luminaire Lumens: 2943.7 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

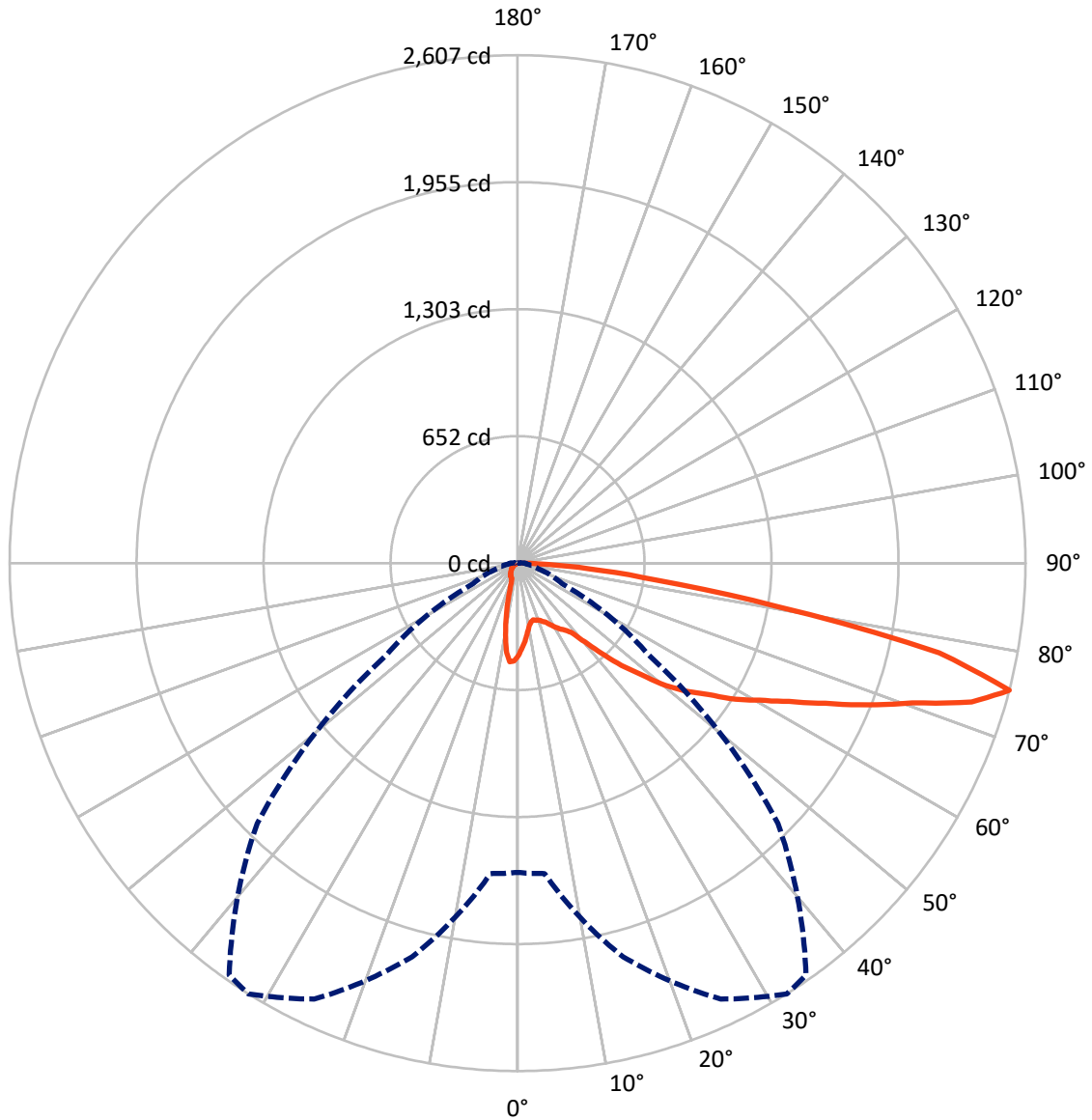
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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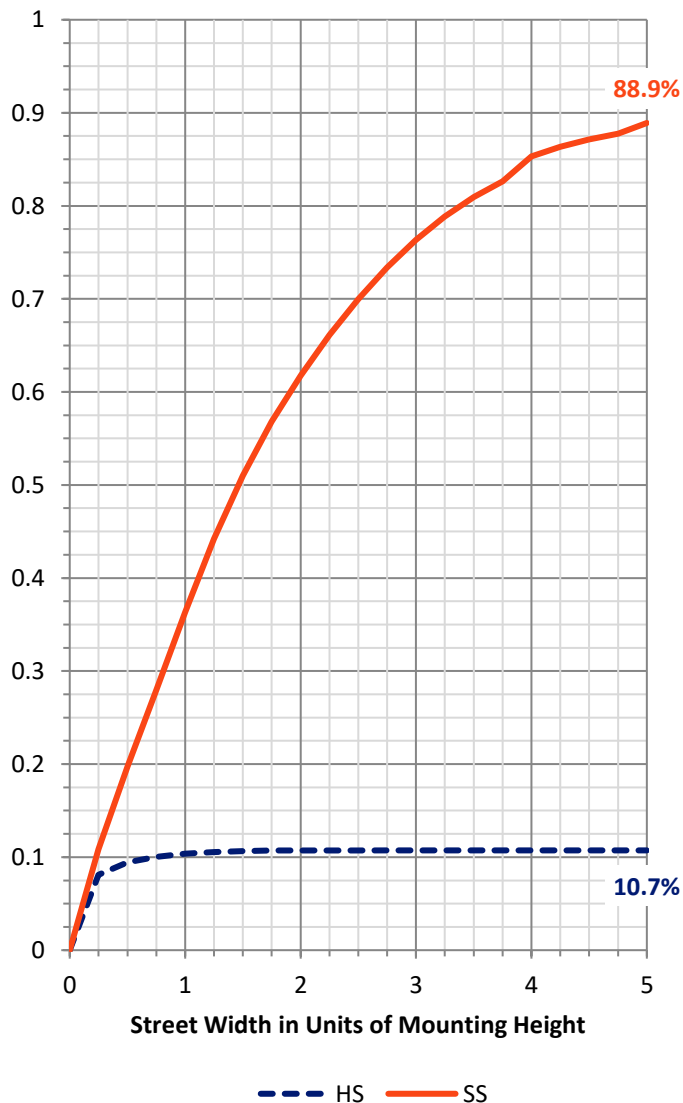
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	318.0	0.0	318.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2625.7	0.0	2625.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	2943.7	0.0	2943.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.4
10°-20°	94.8	3.2
20°-30°	142.0	4.8
30°-40°	218.0	7.4
40°-50°	381.1	12.9
50°-60°	595.8	20.2
60°-70°	770.3	26.2
70°-80°	627.4	21.3
80°-90°	72.6	2.5
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°	2943.7	100.0
0°-180°	2943.7	100.0



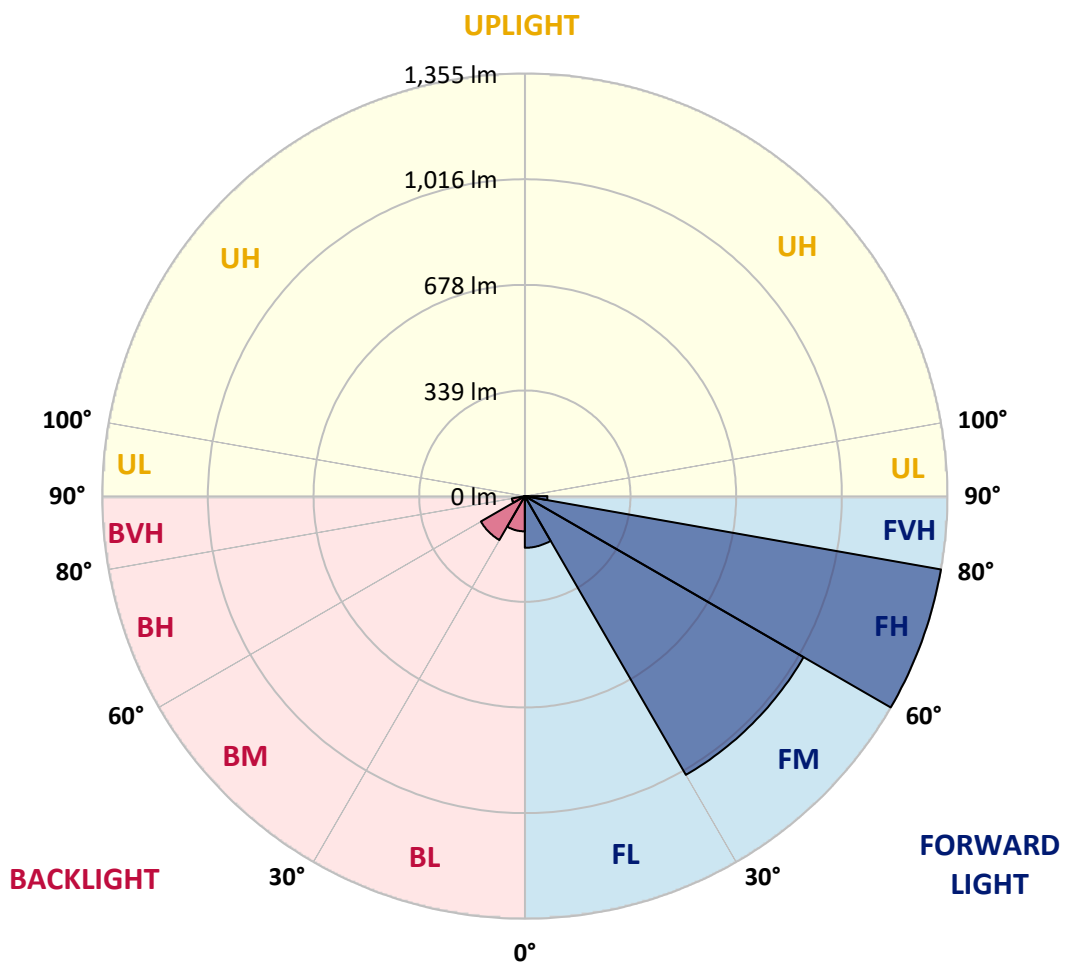
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.6	5.6			
FM (30°-60°)	1032.2	35.1			
FH (60°-80°)	1355.3	46.0			G1/1800
FVH (80°-90°)	72.6	2.5			G1/100
BL (0°-30°)	113.0	3.8	B1/500		
BM (30°-60°)	162.7	5.5	B0/220		
BH (60°-80°)	42.3	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	426.3	432.3	431.6	435.3	436.1	438.3	443.6	443.6	458.7	469.3	476.1
5°	387.8	384.0	385.5	390.1	401.4	400.6	413.4	420.2	438.3	453.4	469.3
7.5°	340.3	339.5	342.5	353.1	361.4	368.2	381.8	399.1	423.3	445.9	473.8
10°	310.1	308.6	314.6	317.6	327.4	332.0	353.1	380.3	408.9	441.4	473.8
12.5°	303.3	298.0	301.0	300.3	309.3	311.6	332.0	365.2	399.9	439.9	479.8
15°	307.1	303.3	300.3	300.3	302.5	304.1	325.9	355.4	394.6	442.1	493.4
17.5°	319.1	316.9	307.8	298.8	308.6	308.6	322.2	353.1	395.3	448.9	510.0
20°	333.5	331.2	315.4	304.8	311.6	319.1	333.5	358.4	397.6	454.2	535.7
22.5°	349.3	349.3	327.4	315.4	324.4	325.2	350.8	375.0	406.7	467.8	552.3
25°	368.9	367.4	346.3	332.7	335.7	344.0	367.4	393.1	423.3	486.6	583.2
27.5°	394.6	392.3	367.4	353.8	357.6	366.7	393.1	418.7	438.3	494.2	609.6
30°	415.7	413.4	393.1	372.7	381.0	389.3	420.2	442.9	457.2	508.5	639.8
32.5°	420.2	416.5	402.9	393.8	402.9	418.7	442.9	466.3	488.1	544.7	697.1
35°	472.3	458.7	423.3	408.9	422.5	427.8	467.8	509.3	530.4	573.4	761.3
37.5°	571.9	559.1	512.3	472.3	453.4	459.5	511.5	562.8	583.2	627.0	831.4
40°	694.1	673.0	623.2	569.6	531.1	523.6	557.6	633.0	652.6	694.1	923.5
42.5°	833.7	813.3	736.4	673.0	633.8	623.9	629.2	714.5	731.1	756.0	983.8
45°	934.0	923.5	836.7	780.1	749.2	738.6	725.8	803.5	824.6	832.9	1071.3
47.5°	992.1	984.6	936.3	897.8	856.3	845.0	853.3	927.2	912.9	919.7	1155.1
50°	1069.8	1050.2	984.6	996.7	988.4	985.3	999.7	1032.1	1011.0	991.4	1246.4
52.5°	1132.5	1097.7	1051.7	1081.2	1094.0	1105.3	1155.8	1180.0	1085.7	1055.5	1305.2
55°	1170.9	1137.7	1149.8	1177.0	1190.5	1242.6	1302.2	1284.1	1134.7	1106.8	1383.7
57.5°	1205.6	1207.9	1240.3	1248.6	1318.1	1327.1	1441.8	1382.9	1169.4	1153.6	1414.6
60°	1289.4	1281.1	1307.5	1361.1	1427.5	1478.0	1587.4	1449.3	1186.8	1177.7	1406.3
62.5°	1440.3	1389.0	1398.0	1465.9	1563.3	1618.3	1671.1	1479.5	1182.3	1181.5	1381.4
65°	1631.9	1573.1	1545.9	1609.3	1735.3	1813.0	1765.5	1513.5	1152.1	1173.2	1288.6
67.5°	1791.1	1791.9	1741.3	1776.8	1941.2	1957.8	1854.5	1506.7	1101.5	1107.6	1062.3
70°	1974.4	1999.3	1954.8	2065.7	2148.0	2158.5	1956.3	1450.8	992.9	835.2	610.4
72.5°	2021.2	2034.0	2172.9	2343.4	2436.2	2439.2	2056.7	1264.5	653.4	368.9	189.4
75°	1587.4	1599.5	2091.4	2468.6	2606.7	2580.3	1889.2	820.9	254.3	107.9	45.3
77.5°	885.7	889.5	1298.4	1995.6	2211.3	2105.0	1323.3	319.9	102.6	61.9	21.1
80°	242.2	284.4	481.4	983.8	1350.5	1325.6	630.0	104.1	66.4	48.3	9.8
82.5°	58.1	62.6	154.7	435.3	713.7	744.7	187.9	52.8	46.0	40.0	5.3
85°	21.1	23.4	47.5	212.0	366.7	336.5	56.6	26.4	34.0	30.9	2.3
87.5°	7.5	7.5	15.1	69.4	107.1	80.7	18.9	9.1	17.4	18.9	0.8
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°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	476.8	476.8	487.4	496.4	499.5	503.2	499.5	507.8	507.0	503.2	504.7
5°	477.6	491.2	500.2	506.2	509.3	508.5	510.0	501.0	495.7	491.9	488.1
7.5°	481.4	494.2	510.8	509.3	501.0	483.6	470.0	445.9	422.5	421.7	418.0
10°	494.2	505.5	515.3	509.3	479.1	426.3	383.3	350.8	321.4	307.8	309.3
12.5°	503.2	524.4	519.8	488.9	426.3	356.9	293.5	246.0	219.5	194.7	194.7
15°	522.1	529.6	528.1	459.5	361.4	278.4	201.4	153.2	125.2	113.9	112.4
17.5°	540.2	548.5	522.8	415.0	297.3	187.1	122.2	95.1	91.3	89.8	90.5
20°	562.8	563.6	518.3	370.4	223.3	118.5	87.5	85.3	86.0	85.3	85.3
22.5°	587.0	592.3	502.5	307.8	148.6	86.0	81.5	82.2	82.2	82.2	84.5
25°	618.7	610.4	477.6	248.2	97.3	79.2	79.2	80.0	80.0	80.0	80.7
27.5°	639.8	628.5	445.9	178.8	76.2	74.7	76.2	76.2	77.7	77.7	77.7
30°	683.5	654.1	405.9	115.4	68.7	70.9	72.4	73.9	74.7	76.2	77.0
32.5°	717.5	676.8	356.1	77.0	62.6	64.1	67.9	70.9	73.9	73.2	73.2
35°	779.4	713.7	310.1	61.1	57.3	57.3	61.1	66.4	70.9	72.4	72.4
37.5°	850.3	743.9	246.0	55.8	52.8	52.8	55.1	61.1	67.1	70.2	68.7
40°	909.1	778.6	181.8	52.1	49.0	49.0	50.5	55.1	61.9	67.1	67.9
42.5°	950.6	804.3	123.0	48.3	46.0	45.3	47.5	49.8	55.1	62.6	64.1
45°	988.4	817.8	76.2	44.5	43.0	43.0	43.0	45.3	49.0	55.8	57.3
47.5°	1055.5	832.9	55.1	41.5	39.2	40.0	40.7	41.5	44.5	46.0	46.8
50°	1112.1	844.2	45.3	38.5	37.0	37.7	37.7	37.7	39.2	37.0	37.0
52.5°	1155.1	832.9	38.5	35.5	34.0	34.7	34.0	34.0	32.4	29.4	29.4
55°	1186.8	812.6	30.9	32.4	32.4	32.4	30.9	28.7	25.7	23.4	23.4
57.5°	1195.1	777.9	24.1	27.2	29.4	29.4	26.4	23.4	19.6	17.4	16.6
60°	1182.3	702.4	18.1	19.6	22.6	23.4	21.1	17.4	13.6	11.3	11.3
62.5°	1136.2	642.8	14.3	12.8	16.6	17.4	15.1	11.3	7.5	5.3	4.5
65°	1048.7	550.8	10.6	9.1	11.3	12.1	9.8	5.3	2.3	0.8	0.0
67.5°	841.2	415.0	6.8	6.0	7.5	7.5	4.5	1.5	0.0	0.0	0.0
70°	465.5	233.1	4.5	3.0	3.8	2.3	0.8	0.0	0.0	0.0	0.0
72.5°	134.3	66.4	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.2	15.8	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.8	6.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	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)