

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: P676541

Luminaire Tested: **CCW-SA-1B-730-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676541
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-730-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

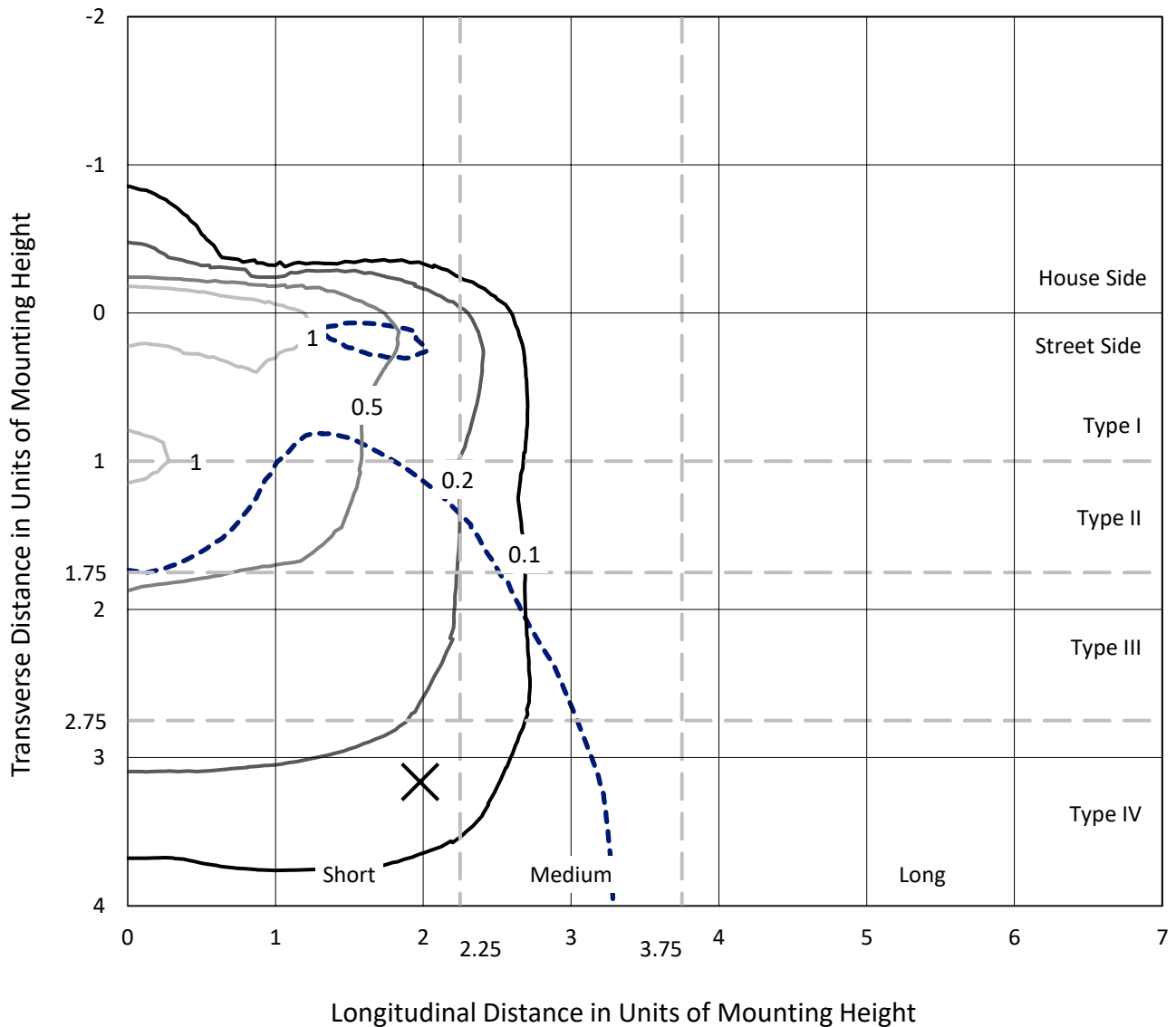
Lumens per Lamp: N/A
Luminaire Lumens: 2258.2 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

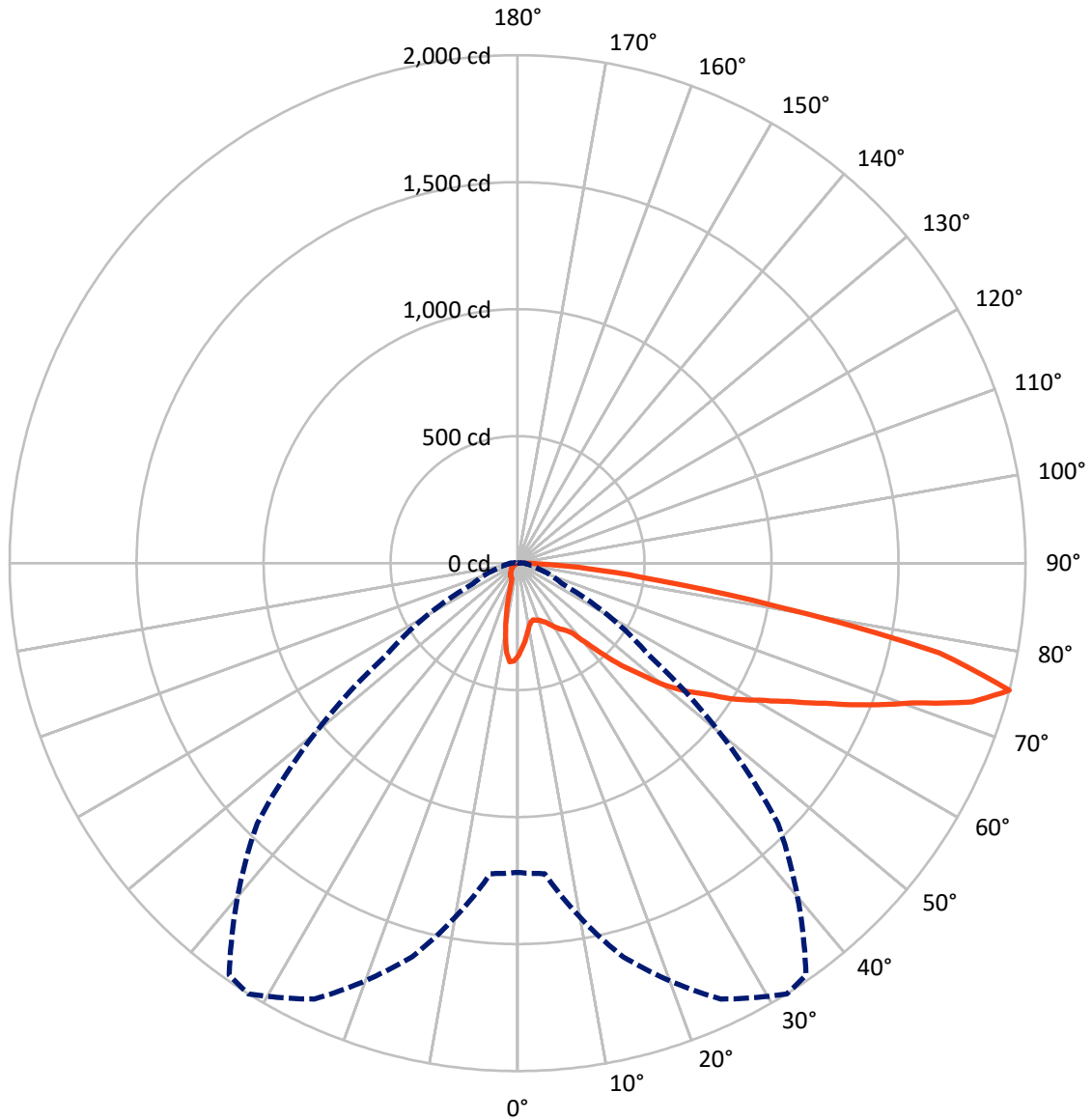
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 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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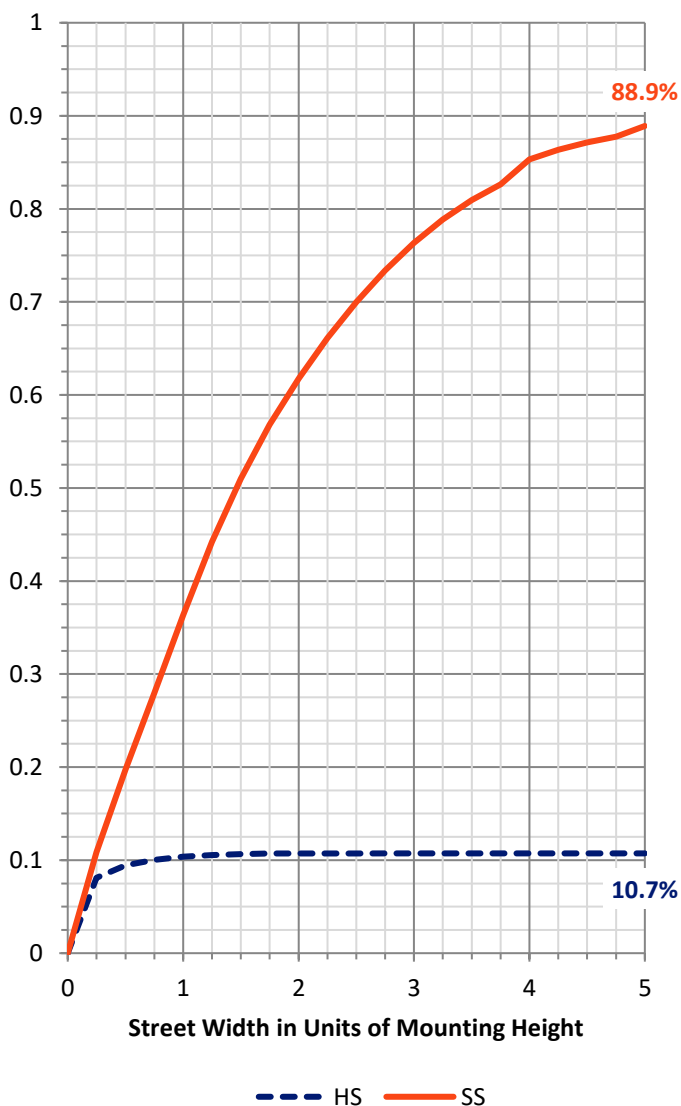
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.0	0.0	244.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2014.2	0.0	2014.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	2258.2	0.0	2258.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	1.4
10°-20°	72.7	3.2
20°-30°	108.9	4.8
30°-40°	167.2	7.4
40°-50°	292.4	12.9
50°-60°	457.0	20.2
60°-70°	590.9	26.2
70°-80°	481.3	21.3
80°-90°	55.7	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°	2258.2	100.0
0°-180°	2258.2	100.0



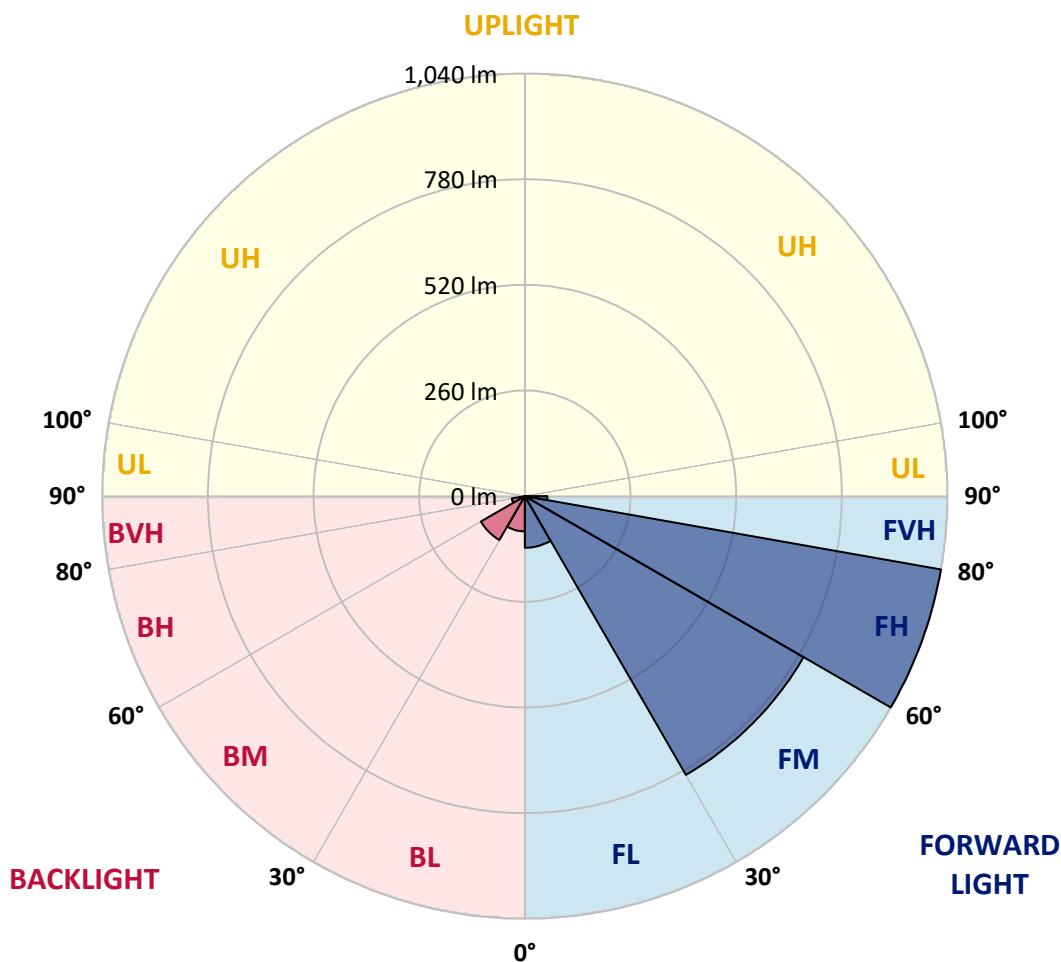
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	127.1	5.6			
FM (30°-60°)	791.8	35.1			
FH (60°-80°)	1039.7	46.0			G1/1800
FVH (80°-90°)	55.7	2.5			G1/100
BL (0°-30°)	86.7	3.8	B0/110		
BM (30°-60°)	124.8	5.5	B0/220		
BH (60°-80°)	32.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.0	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°	32°	35°	45°	55°	65°	75°	85°
0°	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6
2.5°	327.0	331.6	331.1	333.9	334.5	336.3	340.3	340.3	351.9	360.0	365.2
5°	297.5	294.6	295.7	299.2	307.9	307.3	317.2	322.4	336.3	347.8	360.0
7.5°	261.0	260.4	262.8	270.9	277.2	282.4	292.9	306.2	324.7	342.0	363.5
10°	237.9	236.7	241.3	243.7	251.2	254.7	270.9	291.7	313.7	338.6	363.5
12.5°	232.7	228.6	230.9	230.3	237.3	239.0	254.7	280.1	306.7	337.4	368.1
15°	235.6	232.7	230.3	230.3	232.1	233.2	250.0	272.6	302.7	339.2	378.5
17.5°	244.8	243.1	236.1	229.2	236.7	236.7	247.1	270.9	303.3	344.4	391.2
20°	255.8	254.1	241.9	233.8	239.0	244.8	255.8	274.9	305.0	348.4	410.9
22.5°	268.0	268.0	251.2	241.9	248.9	249.4	269.1	287.6	312.0	358.8	423.7
25°	283.0	281.9	265.7	255.2	257.6	263.9	281.9	301.5	324.7	373.3	447.4
27.5°	302.7	301.0	281.9	271.4	274.3	281.3	301.5	321.2	336.3	379.1	467.6
30°	318.9	317.2	301.5	285.9	292.3	298.6	322.4	339.7	350.7	390.1	490.8
32.5°	322.4	319.5	309.1	302.1	309.1	321.2	339.7	357.7	374.5	417.9	534.8
35°	362.3	351.9	324.7	313.7	324.1	328.2	358.8	390.7	406.9	439.9	584.0
37.5°	438.7	428.9	393.0	362.3	347.8	352.5	392.4	431.8	447.4	481.0	637.8
40°	532.5	516.3	478.1	437.0	407.5	401.7	427.7	485.6	500.6	532.5	708.4
42.5°	639.5	623.9	564.9	516.3	486.2	478.6	482.7	548.1	560.8	579.9	754.7
45°	716.5	708.4	641.8	598.4	574.7	566.6	556.8	616.4	632.6	639.0	821.8
47.5°	761.1	755.3	718.2	688.7	656.9	648.2	654.6	711.3	700.3	705.5	886.1
50°	820.7	805.6	755.3	764.5	758.2	755.9	766.9	791.7	775.5	760.5	956.1
52.5°	868.7	842.1	806.8	829.4	839.2	847.9	886.7	905.2	832.8	809.7	1001.3
55°	898.2	872.8	882.0	902.9	913.3	953.2	998.9	985.1	870.5	849.0	1061.5
57.5°	924.9	926.6	951.5	957.9	1011.1	1018.0	1106.0	1060.9	897.1	884.9	1085.2
60°	989.1	982.7	1003.0	1044.1	1095.0	1133.8	1217.7	1111.8	910.4	903.5	1078.8
62.5°	1104.9	1065.5	1072.5	1124.5	1199.2	1241.4	1282.0	1135.0	906.9	906.3	1059.7
65°	1251.9	1206.7	1185.9	1234.5	1331.2	1390.8	1354.3	1161.0	883.8	900.0	988.5
67.5°	1374.0	1374.6	1335.8	1363.0	1489.2	1501.9	1422.6	1155.8	845.0	849.6	814.9
70°	1514.6	1533.7	1499.6	1584.7	1647.7	1655.8	1500.7	1113.0	761.7	640.7	468.2
72.5°	1550.5	1560.3	1666.8	1797.6	1868.8	1871.1	1577.7	970.0	501.2	283.0	145.3
75°	1217.7	1227.0	1604.3	1893.7	1999.6	1979.4	1449.2	629.7	195.0	82.8	34.7
77.5°	679.5	682.4	996.1	1530.8	1696.4	1614.8	1015.2	245.4	78.7	47.5	16.2
80°	185.8	218.2	369.3	754.7	1036.0	1016.9	483.3	79.9	50.9	37.0	7.5
82.5°	44.6	48.0	118.6	333.9	547.5	571.2	144.1	40.5	35.3	30.7	4.1
85°	16.2	17.9	36.5	162.6	281.3	258.1	43.4	20.3	26.0	23.7	1.7
87.5°	5.8	5.8	11.6	53.2	82.2	61.9	14.5	6.9	13.3	14.5	0.6
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°	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6	364.6
2.5°	365.8	365.8	373.9	380.8	383.1	386.0	383.1	389.5	388.9	386.0	387.2
5°	366.4	376.8	383.7	388.4	390.7	390.1	391.2	384.3	380.2	377.4	374.5
7.5°	369.3	379.1	391.8	390.7	384.3	371.0	360.6	342.0	324.1	323.5	320.6
10°	379.1	387.8	395.3	390.7	367.5	327.0	294.0	269.1	246.6	236.1	237.3
12.5°	386.0	402.2	398.8	375.0	327.0	273.8	225.1	188.7	168.4	149.3	149.3
15°	400.5	406.3	405.1	352.5	277.2	213.6	154.5	117.5	96.1	87.4	86.2
17.5°	414.4	420.8	401.1	318.3	228.0	143.5	93.8	72.9	70.0	68.9	69.5
20°	431.8	432.3	397.6	284.2	171.3	90.9	67.1	65.4	66.0	65.4	65.4
22.5°	450.3	454.3	385.5	236.1	114.0	66.0	62.5	63.1	63.1	63.1	64.8
25°	474.6	468.2	366.4	190.4	74.7	60.8	60.8	61.3	61.3	61.3	61.9
27.5°	490.8	482.1	342.0	137.2	58.5	57.3	58.5	58.5	59.6	59.6	59.6
30°	524.4	501.8	311.4	88.6	52.7	54.4	55.6	56.7	57.3	58.5	59.0
32.5°	550.4	519.2	273.2	59.0	48.0	49.2	52.1	54.4	56.7	56.1	56.1
35°	597.9	547.5	237.9	46.9	44.0	44.0	46.9	50.9	54.4	55.6	55.6
37.5°	652.3	570.7	188.7	42.8	40.5	40.5	42.2	46.9	51.5	53.8	52.7
40°	697.4	597.3	139.5	39.9	37.6	37.6	38.8	42.2	47.5	51.5	52.1
42.5°	729.2	617.0	94.3	37.0	35.3	34.7	36.5	38.2	42.2	48.0	49.2
45°	758.2	627.4	58.5	34.1	33.0	33.0	33.0	34.7	37.6	42.8	44.0
47.5°	809.7	639.0	42.2	31.8	30.1	30.7	31.3	31.8	34.1	35.3	35.9
50°	853.1	647.6	34.7	29.5	28.4	28.9	28.9	28.9	30.1	28.4	28.4
52.5°	886.1	639.0	29.5	27.2	26.0	26.6	26.0	26.0	24.9	22.6	22.6
55°	910.4	623.3	23.7	24.9	24.9	24.9	23.7	22.0	19.7	17.9	17.9
57.5°	916.8	596.7	18.5	20.8	22.6	22.6	20.3	17.9	15.0	13.3	12.7
60°	906.9	538.8	13.9	15.0	17.4	17.9	16.2	13.3	10.4	8.7	8.7
62.5°	871.6	493.1	11.0	9.8	12.7	13.3	11.6	8.7	5.8	4.1	3.5
65°	804.5	422.5	8.1	6.9	8.7	9.3	7.5	4.1	1.7	0.6	0.0
67.5°	645.3	318.3	5.2	4.6	5.8	5.8	3.5	1.2	0.0	0.0	0.0
70°	357.1	178.8	3.5	2.3	2.9	1.7	0.6	0.0	0.0	0.0	0.0
72.5°	103.0	50.9	1.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	27.8	12.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.2	4.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	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)