

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: P676546

Luminaire Tested: **CCW-SA-2A-730-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676546
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-730-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

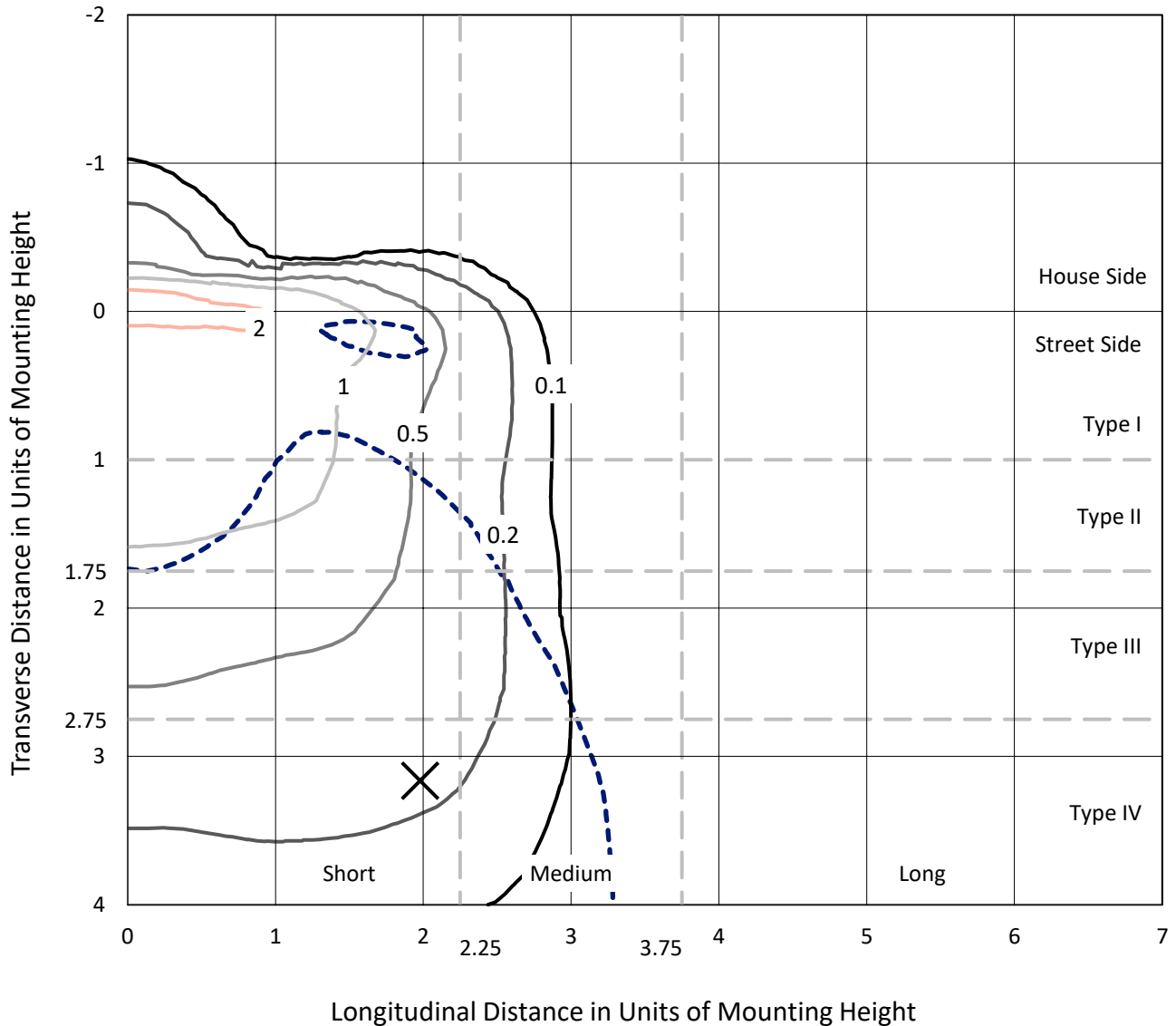
Lumens per Lamp: N/A
Luminaire Lumens: 3577.6 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

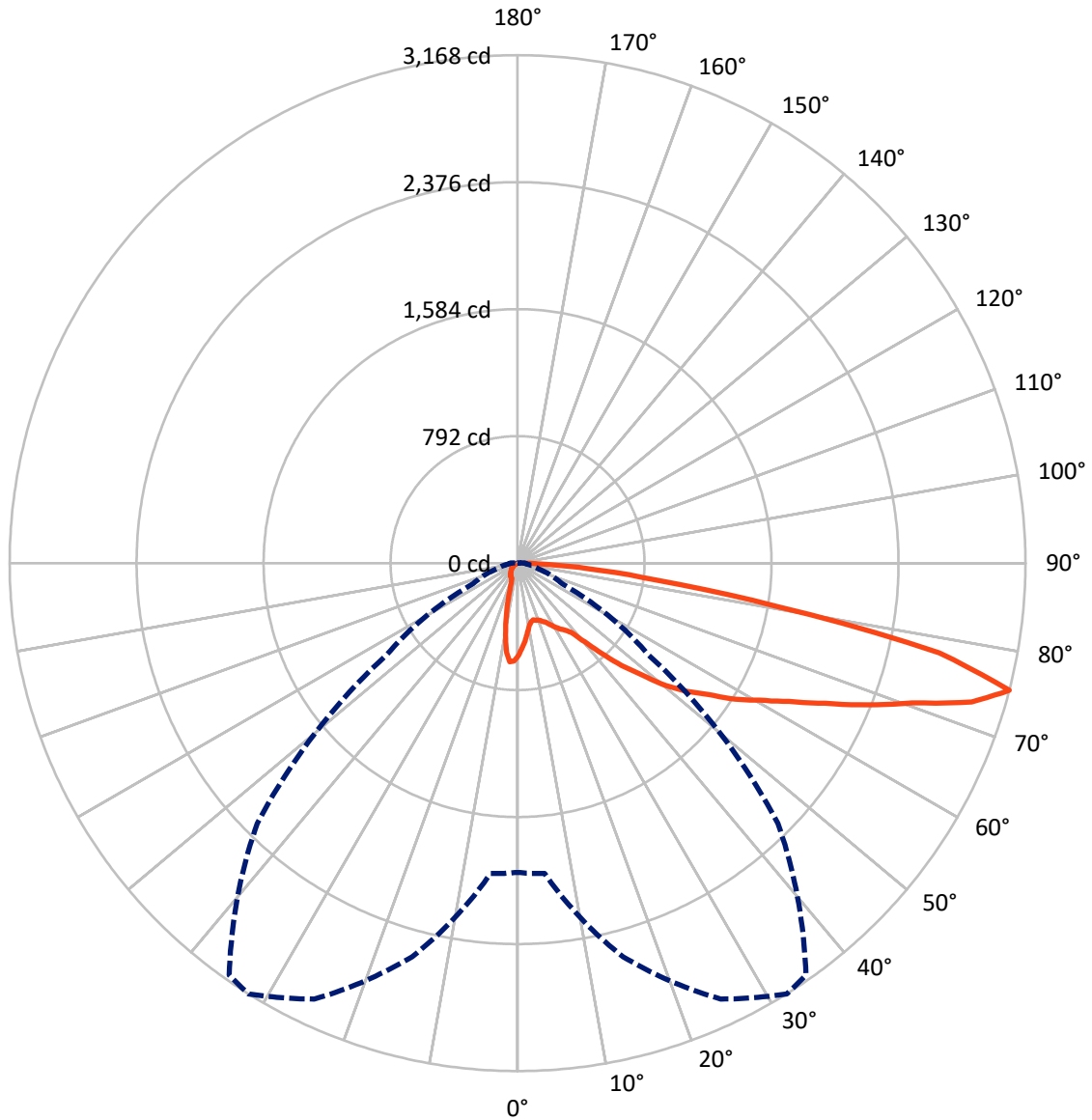
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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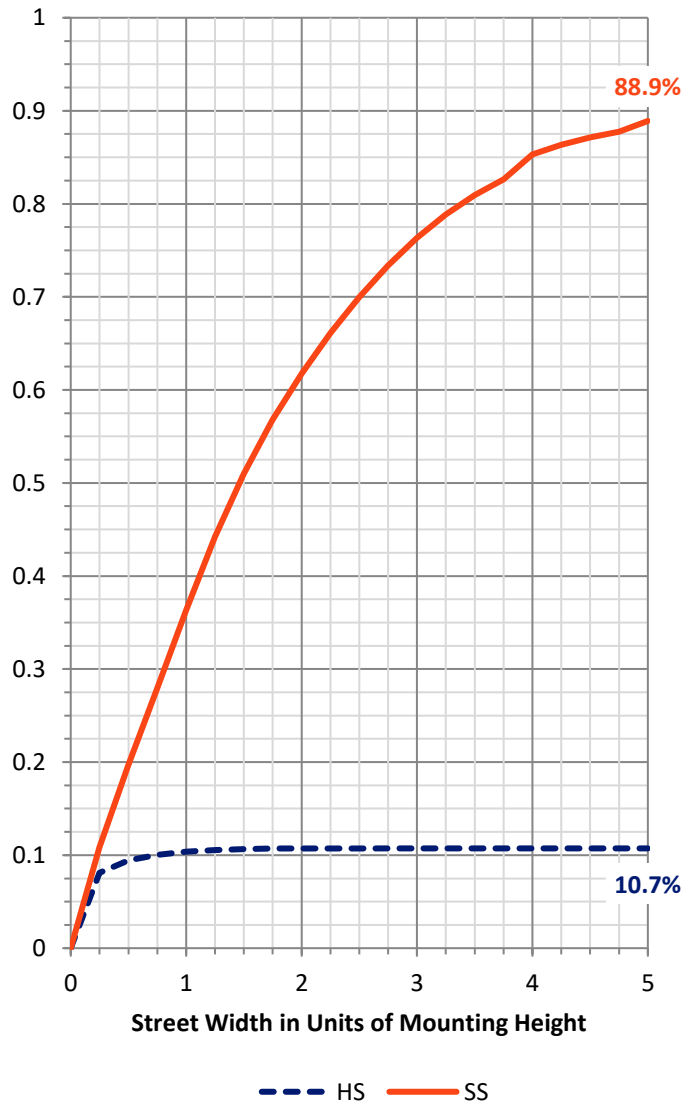
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.5	0.0	386.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3191.1	0.0	3191.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	3577.6	0.0	3577.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	1.4
10°-20°	115.2	3.2
20°-30°	172.6	4.8
30°-40°	264.9	7.4
40°-50°	463.2	12.9
50°-60°	724.1	20.2
60°-70°	936.1	26.2
70°-80°	762.5	21.3
80°-90°	88.3	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°	3577.6	100.0
0°-180°	3577.6	100.0



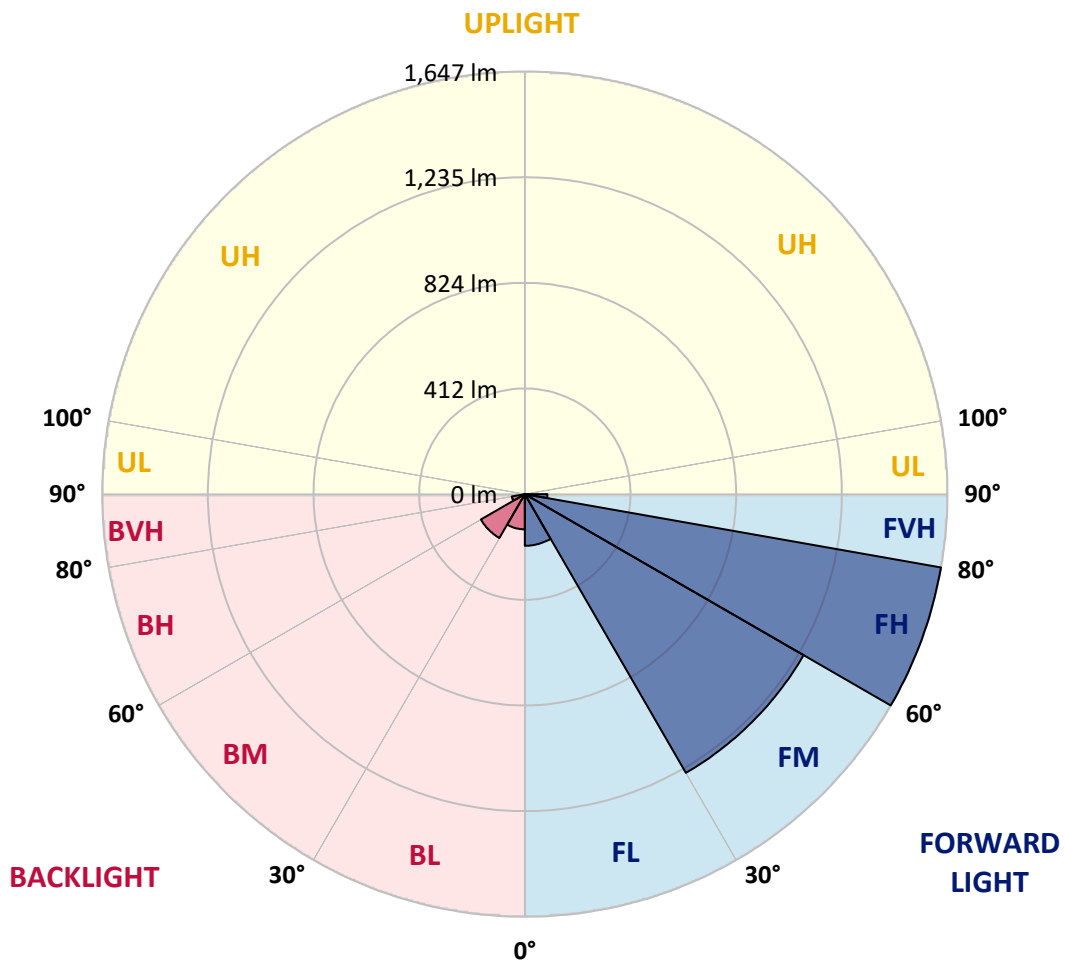
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.3	5.6			
FM (30°-60°)	1254.5	35.1			
FH (60°-80°)	1647.2	46.0			G1/1800
FVH (80°-90°)	88.2	2.5			G1/100
BL (0°-30°)	137.3	3.8	B1/500		
BM (30°-60°)	197.7	5.5	B0/220		
BH (60°-80°)	51.4	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°	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7
2.5°	518.1	525.4	524.5	529.1	530.0	532.7	539.2	539.2	557.5	570.3	578.6
5°	471.3	466.7	468.6	474.1	487.8	486.9	502.5	510.7	532.7	551.1	570.3
7.5°	413.5	412.6	416.3	429.1	439.2	447.5	464.0	485.1	514.4	541.9	575.8
10°	376.9	375.0	382.4	386.0	398.0	403.5	429.1	462.1	497.0	536.4	575.8
12.5°	368.6	362.2	365.9	364.9	375.9	378.7	403.5	443.8	486.0	534.6	583.2
15°	373.2	368.6	364.9	364.9	367.7	369.5	396.1	431.9	479.6	537.3	599.7
17.5°	387.9	385.1	374.1	363.1	375.0	375.0	391.5	429.1	480.5	545.6	619.9
20°	405.3	402.5	383.3	370.4	378.7	387.9	405.3	435.6	483.2	552.0	651.0
22.5°	424.5	424.5	398.0	383.3	394.3	395.2	426.4	455.7	494.2	568.5	671.2
25°	448.4	446.6	420.9	404.4	408.0	418.1	446.6	477.7	514.4	591.4	708.8
27.5°	479.6	476.8	446.6	430.0	434.6	445.6	477.7	508.9	532.7	600.6	740.9
30°	505.2	502.5	477.7	453.0	463.1	473.1	510.7	538.3	555.7	618.0	777.6
32.5°	510.7	506.2	489.7	478.6	489.7	508.9	538.3	566.7	593.3	662.0	847.3
35°	574.0	557.5	514.4	497.0	513.5	519.9	568.5	618.9	644.6	696.9	925.2
37.5°	695.0	679.5	622.6	574.0	551.1	558.4	621.7	684.0	708.8	762.0	1010.5
40°	843.6	817.9	757.4	692.3	645.5	636.4	677.6	769.3	793.2	843.6	1122.3
42.5°	1013.2	988.5	894.9	817.9	770.2	758.3	764.7	868.4	888.5	918.8	1195.7
45°	1135.2	1122.3	1016.9	948.1	910.5	897.7	882.1	976.6	1002.2	1012.3	1302.1
47.5°	1205.8	1196.6	1137.9	1091.2	1040.7	1027.0	1037.1	1126.9	1109.5	1117.8	1403.9
50°	1300.2	1276.4	1196.6	1211.3	1201.2	1197.5	1215.0	1254.4	1228.7	1204.9	1514.8
52.5°	1376.3	1334.2	1278.2	1314.0	1329.6	1343.3	1404.8	1434.1	1319.5	1282.8	1586.3
55°	1423.1	1382.8	1397.4	1430.4	1446.9	1510.2	1582.7	1560.7	1379.1	1345.2	1681.7
57.5°	1465.3	1468.0	1507.5	1517.6	1601.9	1612.9	1752.3	1680.8	1421.3	1402.0	1719.3
60°	1567.1	1557.0	1589.1	1654.2	1734.9	1796.3	1929.3	1761.5	1442.4	1431.4	1709.2
62.5°	1750.5	1688.1	1699.1	1781.6	1899.9	1966.9	2031.0	1798.1	1436.9	1435.9	1678.9
65°	1983.4	1911.8	1878.8	1955.9	2109.0	2203.4	2145.7	1839.4	1400.2	1425.9	1566.2
67.5°	2176.8	2177.8	2116.3	2159.4	2359.3	2379.5	2253.9	1831.2	1338.7	1346.1	1291.1
70°	2399.7	2429.9	2375.8	2510.6	2610.6	2623.4	2377.7	1763.3	1206.7	1015.1	741.8
72.5°	2456.5	2472.1	2640.8	2848.0	2960.8	2964.5	2499.6	1536.8	794.1	448.4	230.2
75°	1929.3	1943.9	2541.8	3000.3	3168.1	3136.0	2296.0	997.6	309.0	131.1	55.0
77.5°	1076.5	1081.1	1578.1	2425.3	2687.6	2558.3	1608.3	388.8	124.7	75.2	25.7
80°	294.3	345.7	585.0	1195.7	1641.3	1611.1	765.7	126.5	80.7	58.7	11.9
82.5°	70.6	76.1	188.0	529.1	867.4	905.0	228.3	64.2	55.9	48.6	6.4
85°	25.7	28.4	57.8	257.7	445.6	409.0	68.8	32.1	41.3	37.6	2.8
87.5°	9.2	9.2	18.3	84.4	130.2	98.1	22.9	11.0	21.1	22.9	0.9
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°	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7
2.5°	579.5	579.5	592.4	603.4	607.0	611.6	607.0	617.1	616.2	611.6	613.4
5°	580.4	596.9	607.9	615.3	618.9	618.0	619.9	608.9	602.4	597.9	593.3
7.5°	585.0	600.6	620.8	618.9	608.9	587.8	571.3	541.9	513.5	512.6	508.0
10°	600.6	614.4	626.3	618.9	582.3	518.1	465.8	426.4	390.6	374.1	375.9
12.5°	611.6	637.3	631.8	594.2	518.1	433.7	356.7	298.9	266.8	236.6	236.6
15°	634.5	643.7	641.9	558.4	439.2	338.4	244.8	186.1	152.2	138.5	136.6
17.5°	656.5	666.6	635.4	504.3	361.3	227.4	148.5	115.5	111.0	109.1	110.0
20°	684.0	685.0	629.9	450.2	271.4	144.0	106.4	103.6	104.5	103.6	103.6
22.5°	713.4	719.8	610.7	374.1	180.6	104.5	99.0	99.9	99.9	99.9	102.7
25°	751.9	741.8	580.4	301.7	118.3	96.3	96.3	97.2	97.2	97.2	98.1
27.5°	777.6	763.8	541.9	217.3	92.6	90.8	92.6	92.6	94.4	94.4	94.4
30°	830.8	795.0	493.3	140.3	83.4	86.2	88.0	89.9	90.8	92.6	93.5
32.5°	872.0	822.5	432.8	93.5	76.1	77.9	82.5	86.2	89.9	88.9	88.9
35°	947.2	867.4	376.9	74.3	69.7	69.7	74.3	80.7	86.2	88.0	88.0
37.5°	1033.4	904.1	298.9	67.9	64.2	64.2	66.9	74.3	81.6	85.3	83.4
40°	1104.9	946.3	221.0	63.3	59.6	59.6	61.4	66.9	75.2	81.6	82.5
42.5°	1155.4	977.5	149.5	58.7	55.9	55.0	57.8	60.5	66.9	76.1	77.9
45°	1201.2	994.0	92.6	54.1	52.3	52.3	52.3	55.0	59.6	67.9	69.7
47.5°	1282.8	1012.3	66.9	50.4	47.7	48.6	49.5	50.4	54.1	55.9	56.9
50°	1351.6	1026.1	55.0	46.8	44.9	45.8	45.8	45.8	47.7	44.9	44.9
52.5°	1403.9	1012.3	46.8	43.1	41.3	42.2	41.3	41.3	39.4	35.8	35.8
55°	1442.4	987.6	37.6	39.4	39.4	39.4	37.6	34.8	31.2	28.4	28.4
57.5°	1452.5	945.4	29.3	33.0	35.8	35.8	32.1	28.4	23.8	21.1	20.2
60°	1436.9	853.7	22.0	23.8	27.5	28.4	25.7	21.1	16.5	13.8	13.8
62.5°	1380.9	781.2	17.4	15.6	20.2	21.1	18.3	13.8	9.2	6.4	5.5
65°	1274.6	669.4	12.8	11.0	13.8	14.7	11.9	6.4	2.8	0.9	0.0
67.5°	1022.4	504.3	8.3	7.3	9.2	9.2	5.5	1.8	0.0	0.0	0.0
70°	565.8	283.3	5.5	3.7	4.6	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	163.2	80.7	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.0	19.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.3	7.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)