

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: P676579

Luminaire Tested: **CCW-SA-2A-750-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676579
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-750-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) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

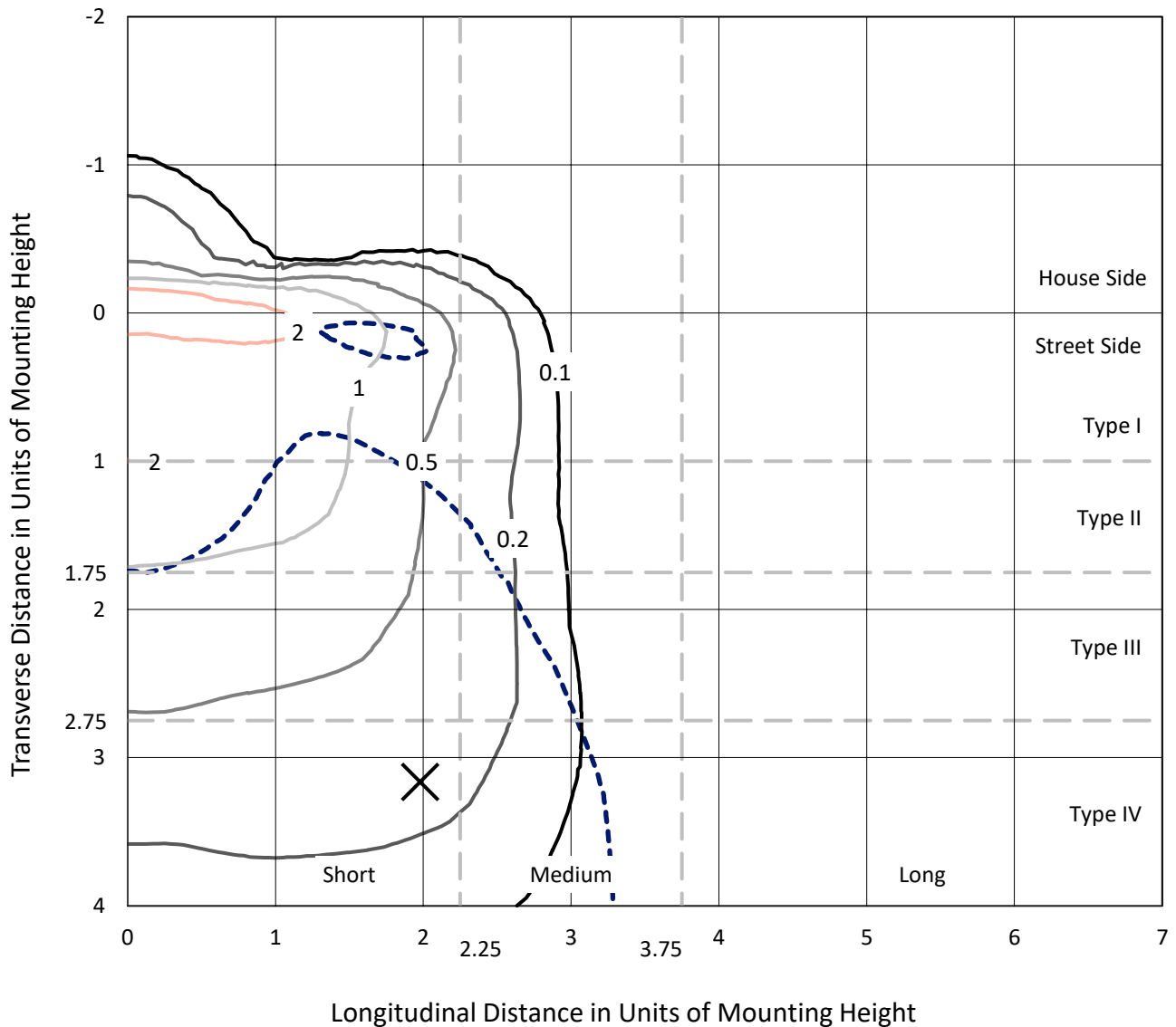
Lumens per Lamp: N/A
Luminaire Lumens: 4018.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

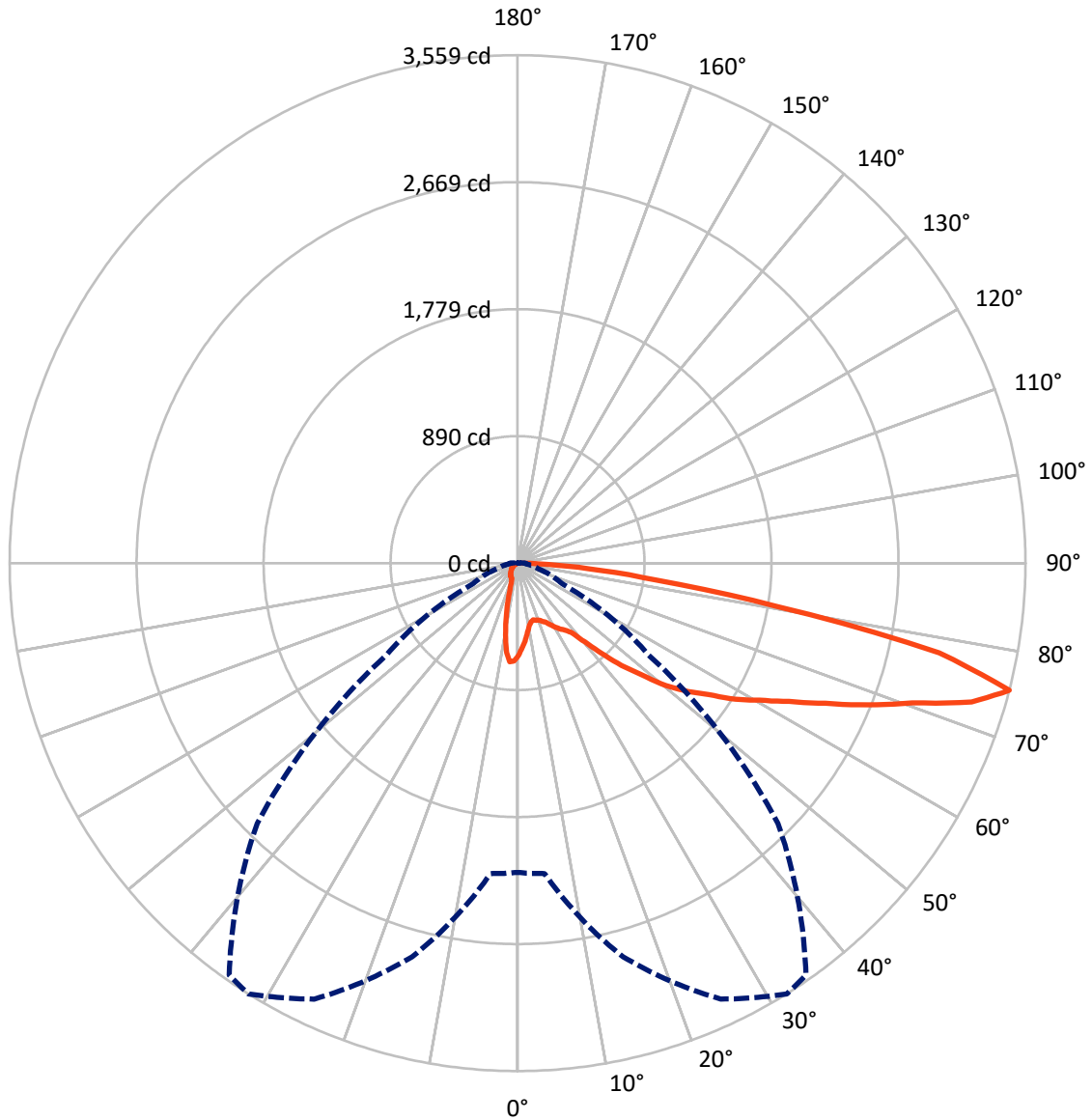
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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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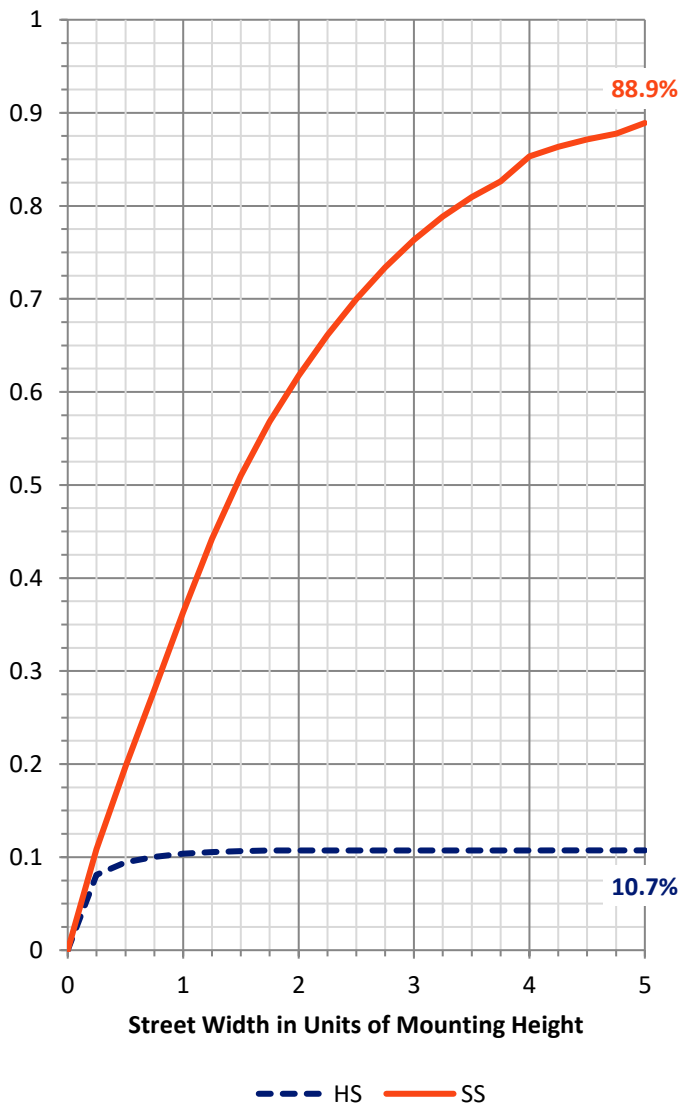
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	434.2	0.0	434.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3584.7	0.0	3584.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	4018.9	0.0	4018.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	1.4
10°-20°	129.5	3.2
20°-30°	193.8	4.8
30°-40°	297.6	7.4
40°-50°	520.4	12.9
50°-60°	813.4	20.2
60°-70°	1051.6	26.2
70°-80°	856.5	21.3
80°-90°	99.1	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°	4018.9	100.0
0°-180°	4018.9	100.0



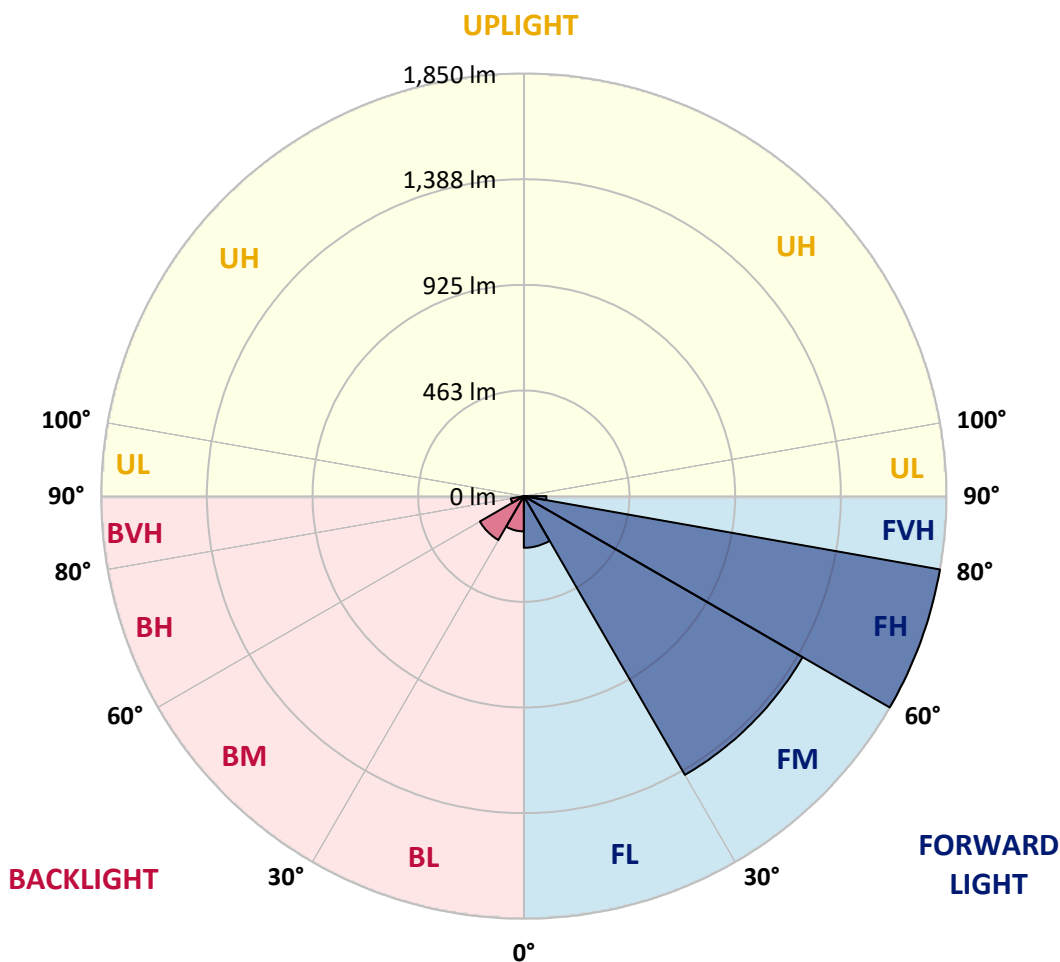
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.1	5.6			
FM (30°-60°)	1409.2	35.1			
FH (60°-80°)	1850.3	46.0			G2/5000
FVH (80°-90°)	99.1	2.5			G1/100
BL (0°-30°)	154.2	3.8	B1/500		
BM (30°-60°)	222.1	5.5	B1/1000		
BH (60°-80°)	57.7	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9
2.5°	582.0	590.2	589.2	594.3	595.4	598.4	605.7	605.7	626.3	640.7	650.0
5°	529.4	524.3	526.3	532.5	548.0	546.9	564.5	573.7	598.4	619.1	640.7
7.5°	464.5	463.5	467.6	482.1	493.4	502.7	521.2	544.9	577.8	608.8	646.9
10°	423.3	421.3	429.5	433.6	447.0	453.2	482.1	519.1	558.3	602.6	646.9
12.5°	414.1	406.9	411.0	410.0	422.3	425.4	453.2	498.5	545.9	600.5	655.1
15°	419.2	414.1	410.0	410.0	413.0	415.1	445.0	485.1	538.7	603.6	673.6
17.5°	435.7	432.6	420.3	407.9	421.3	421.3	439.8	482.1	539.7	612.9	696.3
20°	455.3	452.2	430.6	416.1	425.4	435.7	455.3	489.3	542.8	620.1	731.3
22.5°	476.9	476.9	447.0	430.6	442.9	443.9	479.0	511.9	555.2	638.6	754.0
25°	503.7	501.6	472.8	454.2	458.4	469.7	501.6	536.6	577.8	664.4	796.2
27.5°	538.7	535.6	501.6	483.1	488.2	500.6	536.6	571.7	598.4	674.7	832.3
30°	567.5	564.5	536.6	508.8	520.2	531.5	573.7	604.6	624.2	694.2	873.5
32.5°	573.7	568.6	550.0	537.7	550.0	571.7	604.6	636.6	666.4	743.7	951.8
35°	644.8	626.3	577.8	558.3	576.8	584.0	638.6	695.3	724.1	782.8	1039.3
37.5°	780.8	763.3	699.4	644.8	619.1	627.3	698.4	768.4	796.2	856.0	1135.1
40°	947.6	918.8	850.8	777.7	725.1	714.8	761.2	864.2	891.0	947.6	1260.8
42.5°	1138.2	1110.4	1005.3	918.8	865.2	851.8	859.0	975.4	998.1	1032.1	1343.2
45°	1275.2	1260.8	1142.3	1065.1	1022.8	1008.4	990.9	1097.0	1125.8	1137.2	1462.6
47.5°	1354.5	1344.2	1278.3	1225.7	1169.1	1153.6	1165.0	1265.9	1246.3	1255.6	1577.0
50°	1460.6	1433.8	1344.2	1360.7	1349.3	1345.2	1364.8	1409.1	1380.2	1353.5	1701.6
52.5°	1546.1	1498.7	1435.9	1476.0	1493.5	1509.0	1578.0	1611.0	1482.2	1441.0	1782.0
55°	1598.6	1553.3	1569.8	1606.9	1625.4	1696.5	1777.8	1753.1	1549.2	1511.1	1889.1
57.5°	1646.0	1649.1	1693.4	1704.7	1799.5	1811.8	1968.4	1888.1	1596.6	1574.9	1931.3
60°	1760.3	1749.0	1785.0	1858.2	1948.8	2017.8	2167.2	1978.7	1620.2	1607.9	1920.0
62.5°	1966.3	1896.3	1908.7	2001.4	2134.2	2209.4	2281.5	2019.9	1614.1	1613.0	1886.0
65°	2228.0	2147.6	2110.5	2197.1	2369.1	2475.2	2410.3	2066.2	1572.9	1601.7	1759.3
67.5°	2445.3	2446.3	2377.3	2425.7	2650.3	2672.9	2531.8	2057.0	1503.8	1512.1	1450.3
70°	2695.6	2729.6	2668.8	2820.2	2932.5	2946.9	2670.9	1980.8	1355.5	1140.2	833.3
72.5°	2759.5	2777.0	2966.5	3199.3	3326.0	3330.1	2807.9	1726.3	892.0	503.7	258.5
75°	2167.2	2183.7	2855.3	3370.3	3558.8	3522.7	2579.2	1120.7	347.1	147.3	61.8
77.5°	1209.3	1214.4	1772.7	2724.4	3019.0	2873.8	1806.7	436.7	140.1	84.5	28.8
80°	330.6	388.3	657.2	1343.2	1843.8	1809.8	860.1	142.1	90.6	65.9	13.4
82.5°	79.3	85.5	211.2	594.3	974.4	1016.6	256.5	72.1	62.8	54.6	7.2
85°	28.8	31.9	64.9	289.4	500.6	459.4	77.3	36.1	46.4	42.2	3.1
87.5°	10.3	10.3	20.6	94.8	146.3	110.2	25.8	12.4	23.7	25.8	1.0
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°	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9
2.5°	651.0	651.0	665.4	677.8	681.9	687.0	681.9	693.2	692.2	687.0	689.1
5°	652.0	670.6	682.9	691.2	695.3	694.2	696.3	683.9	676.7	671.6	666.4
7.5°	657.2	674.7	697.3	695.3	683.9	660.3	641.7	608.8	576.8	575.8	570.6
10°	674.7	690.1	703.5	695.3	654.1	582.0	523.3	479.0	438.8	420.3	422.3
12.5°	687.0	715.9	709.7	667.5	582.0	487.2	400.7	335.8	299.7	265.7	265.7
15°	712.8	723.1	721.0	627.3	493.4	380.1	275.0	209.1	171.0	155.5	153.5
17.5°	737.5	748.8	713.8	566.5	405.8	255.4	166.9	129.8	124.6	122.6	123.6
20°	768.4	769.4	707.6	505.7	304.9	161.7	119.5	116.4	117.4	116.4	116.4
22.5°	801.4	808.6	686.0	420.3	202.9	117.4	111.2	112.3	112.3	112.3	115.4
25°	844.6	833.3	652.0	338.9	132.9	108.2	108.2	109.2	109.2	109.2	110.2
27.5°	873.5	858.0	608.8	244.1	104.0	102.0	104.0	104.0	106.1	106.1	106.1
30°	933.2	893.0	554.2	157.6	93.7	96.8	98.9	100.9	102.0	104.0	105.1
32.5°	979.6	923.9	486.2	105.1	85.5	87.6	92.7	96.8	100.9	99.9	99.9
35°	1064.0	974.4	423.3	83.4	78.3	78.3	83.4	90.6	96.8	98.9	98.9
37.5°	1160.8	1015.6	335.8	76.2	72.1	72.1	75.2	83.4	91.7	95.8	93.7
40°	1241.2	1063.0	248.2	71.1	67.0	67.0	69.0	75.2	84.5	91.7	92.7
42.5°	1297.8	1098.0	167.9	65.9	62.8	61.8	64.9	68.0	75.2	85.5	87.6
45°	1349.3	1116.6	104.0	60.8	58.7	58.7	58.7	61.8	67.0	76.2	78.3
47.5°	1441.0	1137.2	75.2	56.7	53.6	54.6	55.6	56.7	60.8	62.8	63.9
50°	1518.3	1152.6	61.8	52.5	50.5	51.5	51.5	51.5	53.6	50.5	50.5
52.5°	1577.0	1137.2	52.5	48.4	46.4	47.4	46.4	46.4	44.3	40.2	40.2
55°	1620.2	1109.3	42.2	44.3	44.3	44.3	42.2	39.1	35.0	31.9	31.9
57.5°	1631.6	1062.0	33.0	37.1	40.2	40.2	36.1	31.9	26.8	23.7	22.7
60°	1614.1	959.0	24.7	26.8	30.9	31.9	28.8	23.7	18.5	15.5	15.5
62.5°	1551.2	877.6	19.6	17.5	22.7	23.7	20.6	15.5	10.3	7.2	6.2
65°	1431.7	751.9	14.4	12.4	15.5	16.5	13.4	7.2	3.1	1.0	0.0
67.5°	1148.5	566.5	9.3	8.2	10.3	10.3	6.2	2.1	0.0	0.0	0.0
70°	635.5	318.3	6.2	4.1	5.2	3.1	1.0	0.0	0.0	0.0	0.0
72.5°	183.3	90.6	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	49.4	21.6	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.6	8.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)