

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: P676635

Luminaire Tested: **CCW-SA-2B-840-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676635
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-840-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

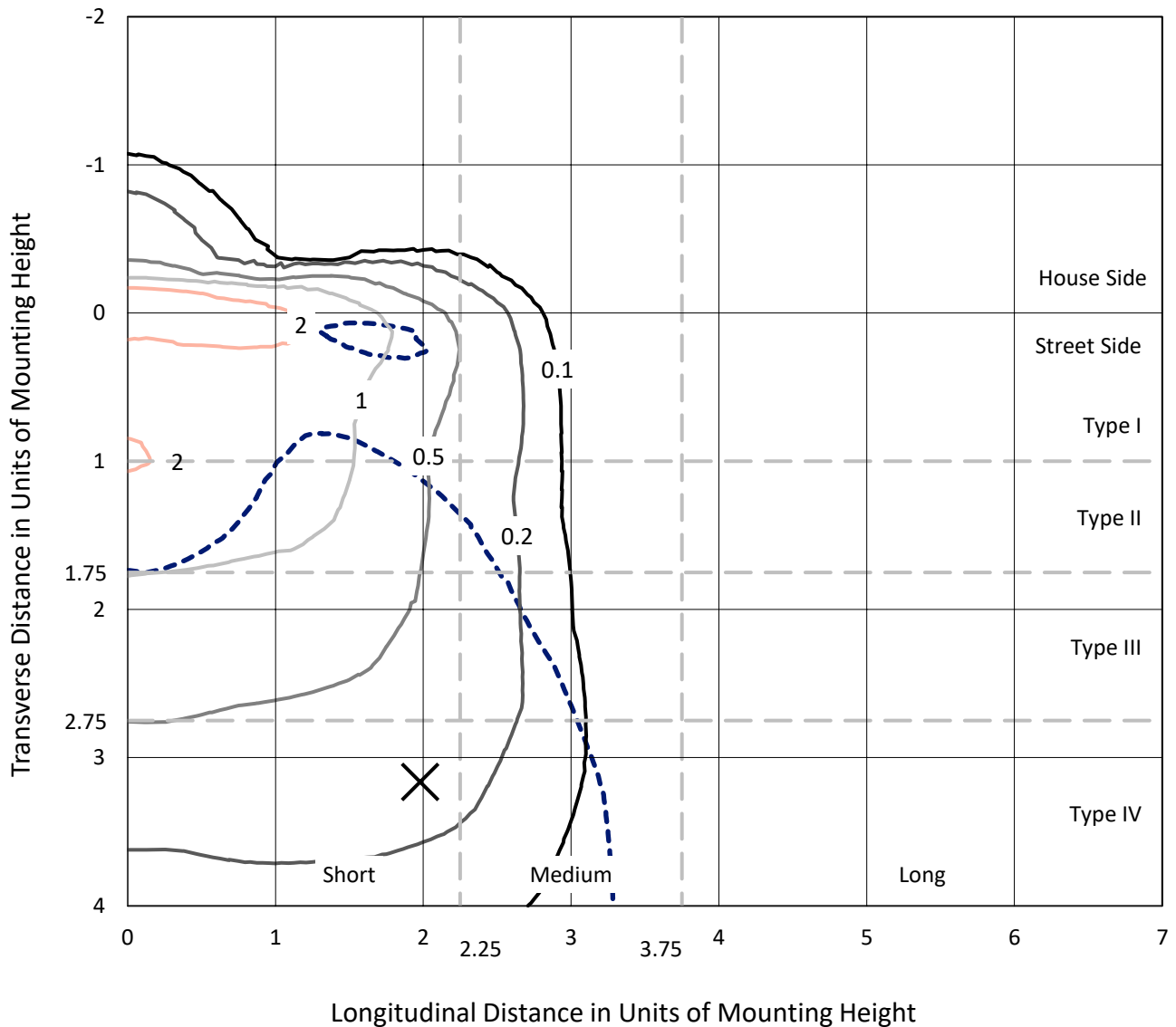
Lumens per Lamp: N/A
Luminaire Lumens: 4228 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

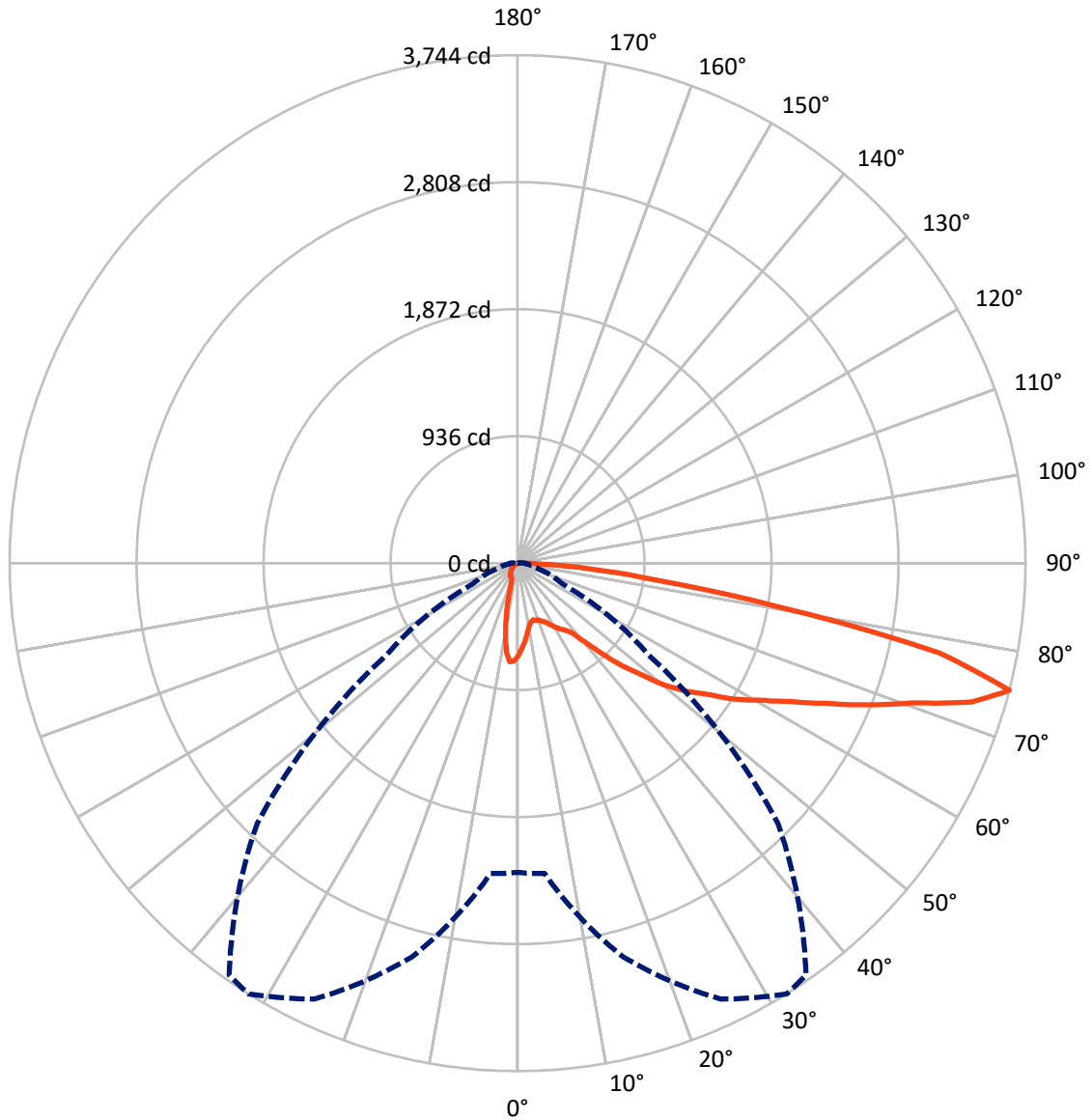
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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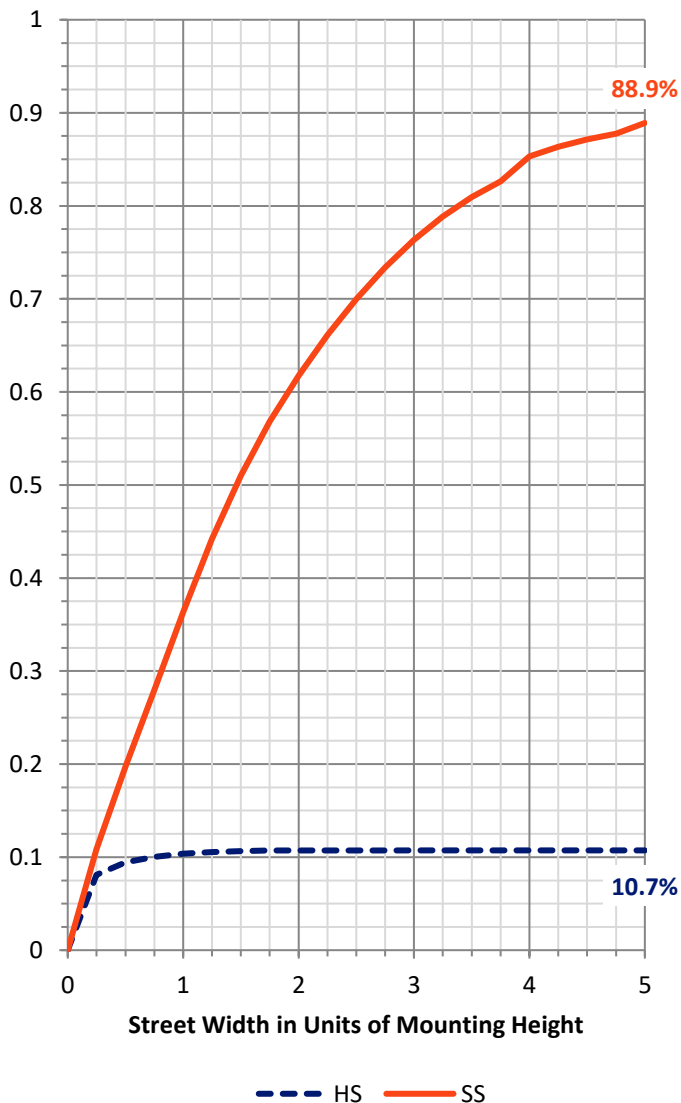
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.8	0.0	456.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3771.3	0.0	3771.3
	% Fixture	89.2	0.0	89.2
Total	Lumens	4228.0	0.0	4228.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	1.4
10°-20°	136.2	3.2
20°-30°	203.9	4.8
30°-40°	313.1	7.4
40°-50°	547.4	12.9
50°-60°	855.7	20.2
60°-70°	1106.3	26.2
70°-80°	901.1	21.3
80°-90°	104.3	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°	4228.0	100.0
0°-180°	4228.0	100.0



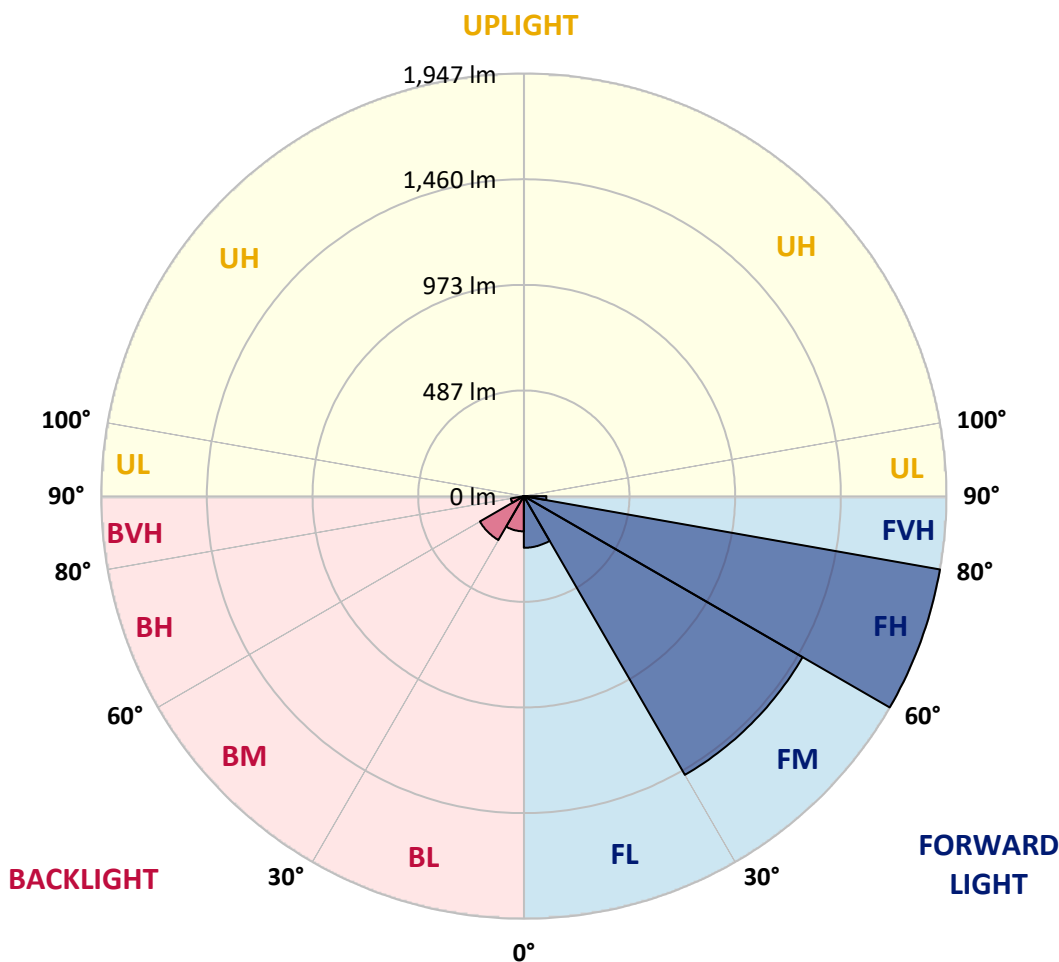
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.9	5.6			
FM (30°-60°)	1482.5	35.1			
FH (60°-80°)	1946.6	46.0			G2/5000
FVH (80°-90°)	104.2	2.5			G2/225
BL (0°-30°)	162.3	3.8	B1/500		
BM (30°-60°)	233.7	5.5	B1/1000		
BH (60°-80°)	60.8	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°	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7
2.5°	612.3	620.9	619.8	625.3	626.3	629.6	637.2	637.2	658.9	674.0	683.8
5°	557.0	551.6	553.7	560.2	576.5	575.4	593.8	603.6	629.6	651.3	674.0
7.5°	488.7	487.6	492.0	507.1	519.1	528.8	548.3	573.2	607.9	640.4	680.5
10°	445.4	443.2	451.9	456.2	470.3	476.8	507.1	546.2	587.3	633.9	680.5
12.5°	435.6	428.0	432.4	431.3	444.3	447.5	476.8	524.5	574.3	631.8	689.2
15°	441.0	435.6	431.3	431.3	434.5	436.7	468.1	510.4	566.7	635.0	708.7
17.5°	458.4	455.1	442.1	429.1	443.2	443.2	462.7	507.1	567.8	644.8	732.5
20°	479.0	475.7	453.0	437.8	447.5	458.4	479.0	514.7	571.1	652.4	769.4
22.5°	501.7	501.7	470.3	453.0	466.0	467.1	503.9	538.6	584.1	671.9	793.2
25°	529.9	527.7	497.4	477.9	482.2	494.1	527.7	564.6	607.9	699.0	837.7
27.5°	566.7	563.5	527.7	508.2	513.6	526.7	564.6	601.4	629.6	709.8	875.6
30°	597.1	593.8	564.6	535.3	547.2	559.2	603.6	636.1	656.7	730.4	918.9
32.5°	603.6	598.2	578.7	565.7	578.7	601.4	636.1	669.7	701.1	782.4	1001.3
35°	678.4	658.9	607.9	587.3	606.8	614.4	671.9	731.5	761.8	823.6	1093.4
37.5°	821.4	803.0	735.8	678.4	651.3	659.9	734.7	808.4	837.7	900.5	1194.2
40°	997.0	966.6	895.1	818.2	762.9	752.0	800.8	909.2	937.4	997.0	1326.4
42.5°	1197.4	1168.2	1057.6	966.6	910.3	896.2	903.8	1026.2	1050.1	1085.8	1413.1
45°	1341.6	1326.4	1201.8	1120.5	1076.1	1060.9	1042.5	1154.1	1184.4	1196.3	1538.8
47.5°	1425.0	1414.2	1344.8	1289.5	1229.9	1213.7	1225.6	1331.8	1311.2	1321.0	1659.1
50°	1536.6	1508.4	1414.2	1431.5	1419.6	1415.2	1435.8	1482.4	1452.1	1423.9	1790.2
52.5°	1626.5	1576.7	1510.6	1552.9	1571.3	1587.5	1660.1	1694.8	1559.4	1516.0	1874.7
55°	1681.8	1634.1	1651.5	1690.5	1710.0	1784.8	1870.4	1844.4	1629.8	1589.7	1987.4
57.5°	1731.7	1734.9	1781.5	1793.4	1893.1	1906.1	2070.8	1986.3	1679.6	1656.9	2031.8
60°	1851.9	1840.0	1878.0	1954.9	2050.3	2122.9	2280.0	2081.7	1704.6	1691.6	2019.9
62.5°	2068.7	1995.0	2008.0	2105.5	2245.3	2324.4	2400.3	2125.0	1698.1	1697.0	1984.2
65°	2343.9	2259.4	2220.4	2311.4	2492.4	2604.0	2535.7	2173.8	1654.7	1685.1	1850.9
67.5°	2572.6	2573.7	2501.0	2552.0	2788.2	2812.1	2663.6	2164.0	1582.1	1590.8	1525.8
70°	2835.9	2871.7	2807.7	2967.0	3085.1	3100.3	2809.9	2083.8	1426.1	1199.6	876.7
72.5°	2903.1	2921.5	3120.9	3365.8	3499.1	3503.4	2954.0	1816.2	938.4	529.9	272.0
75°	2280.0	2297.3	3003.9	3545.7	3744.0	3706.1	2713.4	1179.0	365.2	155.0	65.0
77.5°	1272.2	1277.6	1865.0	2866.2	3176.2	3023.4	1900.7	459.5	147.4	88.9	30.3
80°	347.8	408.5	691.4	1413.1	1939.7	1904.0	904.8	149.5	95.4	69.4	14.1
82.5°	83.4	89.9	222.1	625.3	1025.1	1069.6	269.8	75.9	66.1	57.4	7.6
85°	30.3	33.6	68.3	304.5	526.7	483.3	81.3	37.9	48.8	44.4	3.3
87.5°	10.8	10.8	21.7	99.7	153.9	115.9	27.1	13.0	24.9	27.1	1.1
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°	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7	682.7
2.5°	684.9	684.9	700.0	713.0	717.4	722.8	717.4	729.3	728.2	722.8	725.0
5°	685.9	705.5	718.5	727.1	731.5	730.4	732.5	719.5	712.0	706.5	701.1
7.5°	691.4	709.8	733.6	731.5	719.5	694.6	675.1	640.4	606.8	605.8	600.3
10°	709.8	726.0	740.1	731.5	688.1	612.3	550.5	503.9	461.6	442.1	444.3
12.5°	722.8	753.1	746.6	702.2	612.3	512.6	421.5	353.3	315.3	279.6	279.6
15°	749.9	760.7	758.6	659.9	519.1	399.9	289.3	220.0	179.9	163.6	161.5
17.5°	775.9	787.8	751.0	596.0	427.0	268.7	175.6	136.5	131.1	129.0	130.0
20°	808.4	809.5	744.5	532.1	320.8	170.1	125.7	122.5	123.5	122.5	122.5
22.5°	843.1	850.7	721.7	442.1	213.5	123.5	117.0	118.1	118.1	118.1	121.4
25°	888.6	876.7	685.9	356.5	139.8	113.8	113.8	114.9	114.9	114.9	115.9
27.5°	918.9	902.7	640.4	256.8	109.4	107.3	109.4	109.4	111.6	111.6	111.6
30°	981.8	939.5	583.0	165.8	98.6	101.9	104.0	106.2	107.3	109.4	110.5
32.5°	1030.5	972.0	511.5	110.5	89.9	92.1	97.5	101.9	106.2	105.1	105.1
35°	1119.4	1025.1	445.4	87.8	82.4	82.4	87.8	95.4	101.9	104.0	104.0
37.5°	1221.3	1068.5	353.3	80.2	75.9	75.9	79.1	87.8	96.4	100.8	98.6
40°	1305.8	1118.3	261.2	74.8	70.4	70.4	72.6	79.1	88.9	96.4	97.5
42.5°	1365.4	1155.2	176.6	69.4	66.1	65.0	68.3	71.5	79.1	89.9	92.1
45°	1419.6	1174.7	109.4	63.9	61.8	61.8	61.8	65.0	70.4	80.2	82.4
47.5°	1516.0	1196.3	79.1	59.6	56.3	57.4	58.5	59.6	63.9	66.1	67.2
50°	1597.3	1212.6	65.0	55.3	53.1	54.2	54.2	54.2	56.3	53.1	53.1
52.5°	1659.1	1196.3	55.3	50.9	48.8	49.8	48.8	48.8	46.6	42.3	42.3
55°	1704.6	1167.1	44.4	46.6	46.6	46.6	44.4	41.2	36.8	33.6	33.6
57.5°	1716.5	1117.2	34.7	39.0	42.3	42.3	37.9	33.6	28.2	24.9	23.8
60°	1698.1	1008.9	26.0	28.2	32.5	33.6	30.3	24.9	19.5	16.3	16.3
62.5°	1632.0	923.3	20.6	18.4	23.8	24.9	21.7	16.3	10.8	7.6	6.5
65°	1506.3	791.1	15.2	13.0	16.3	17.3	14.1	7.6	3.3	1.1	0.0
67.5°	1208.3	596.0	9.8	8.7	10.8	10.8	6.5	2.2	0.0	0.0	0.0
70°	668.6	334.8	6.5	4.3	5.4	3.3	1.1	0.0	0.0	0.0	0.0
72.5°	192.9	95.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.0	22.8	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.8	8.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)