

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: P676622

Luminaire Tested: **CCW-SA-1F-835-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676622
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-835-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

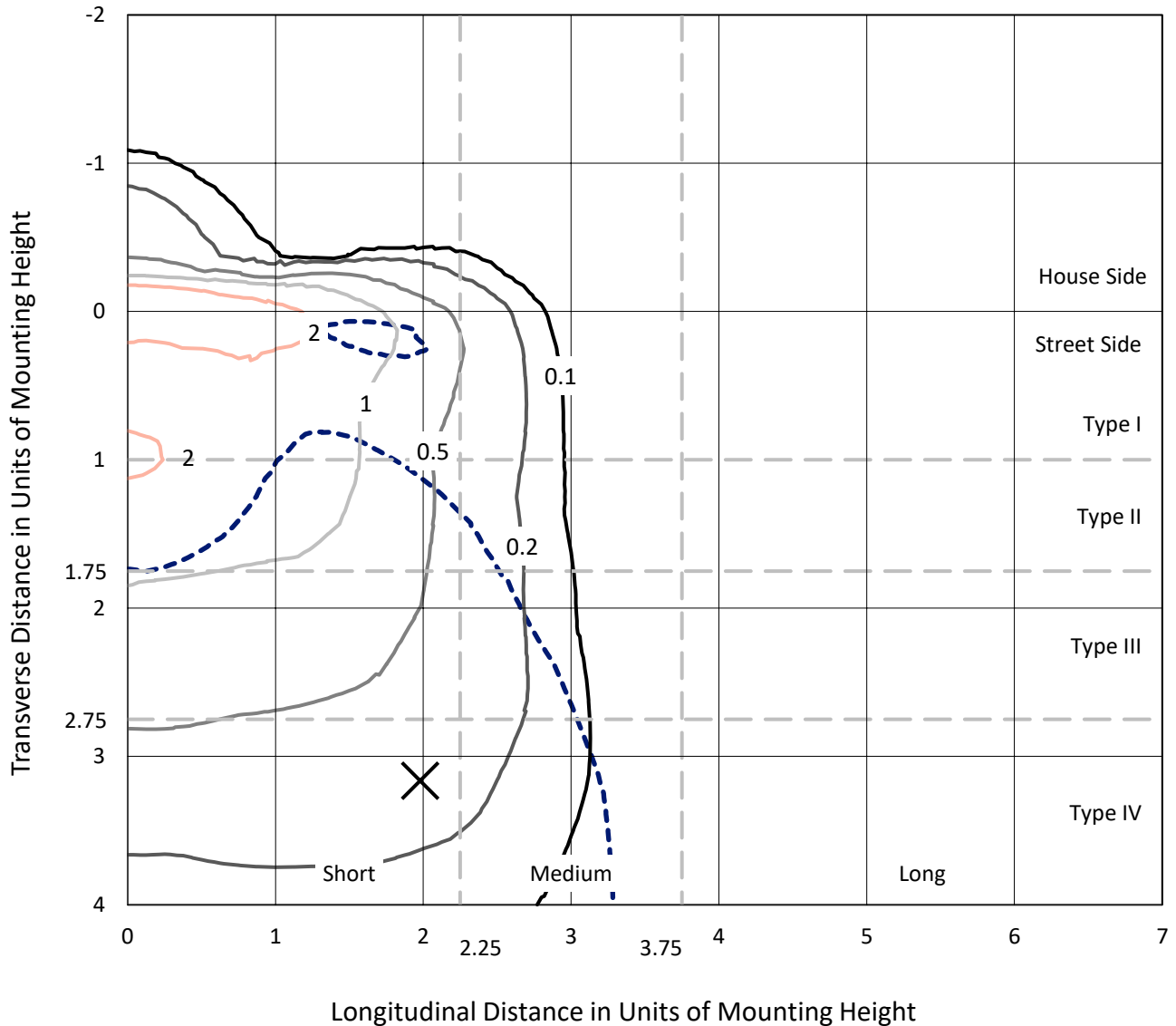
Lumens per Lamp: N/A
Luminaire Lumens: 4436.2 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

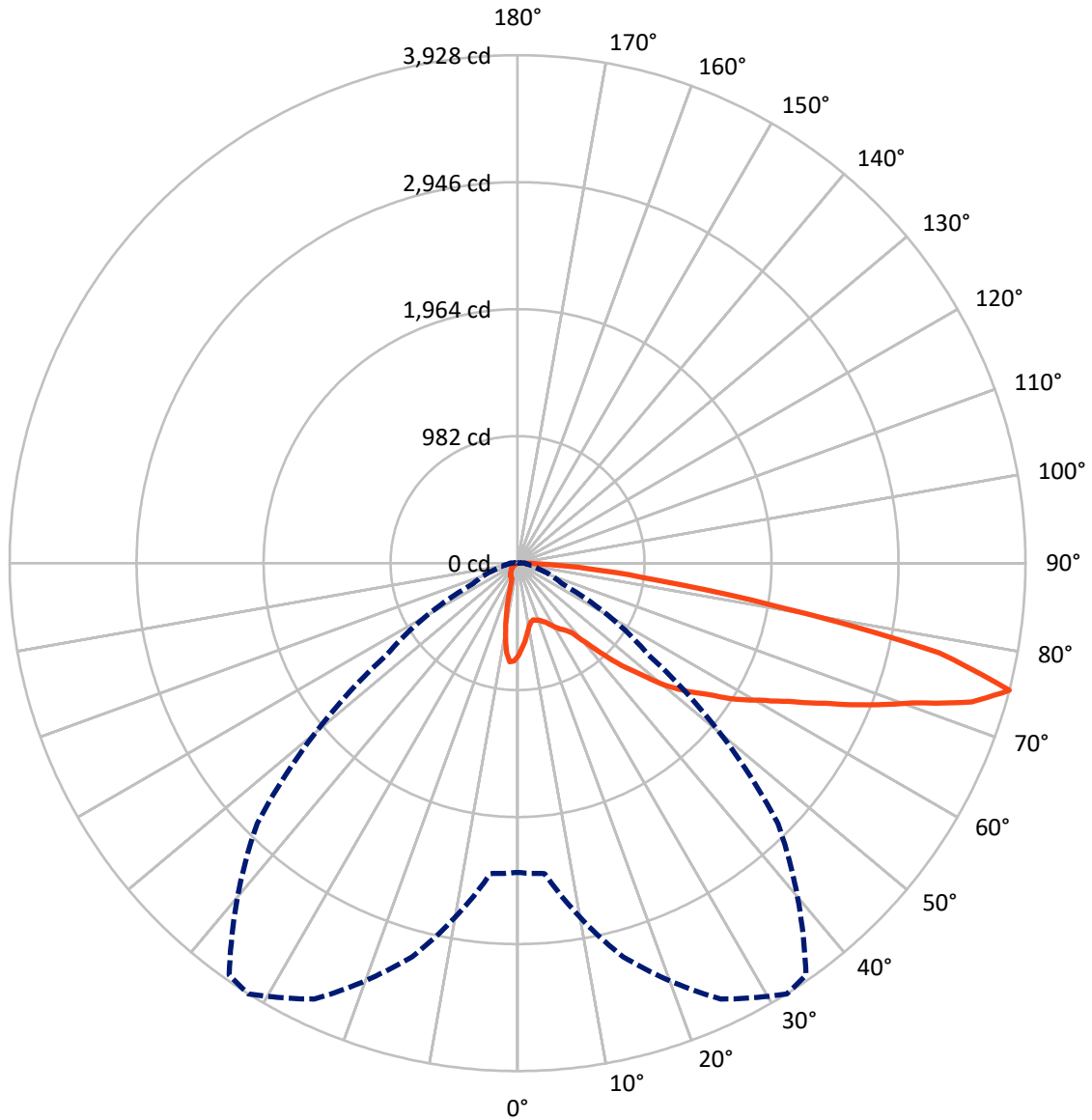
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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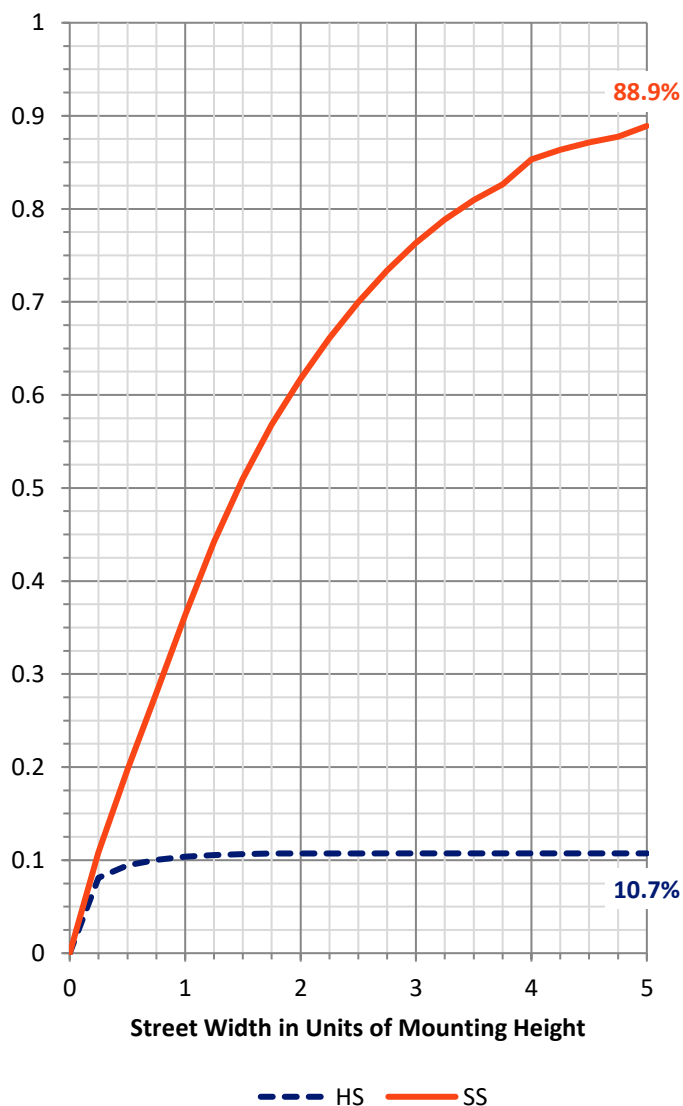
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.2	0.0	479.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3956.9	0.0	3956.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	4436.2	0.0	4436.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.4
10°-20°	142.9	3.2
20°-30°	214.0	4.8
30°-40°	328.5	7.4
40°-50°	574.4	12.9
50°-60°	897.8	20.2
60°-70°	1160.8	26.2
70°-80°	945.4	21.3
80°-90°	109.4	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°	4436.2	100.0
0°-180°	4436.2	100.0



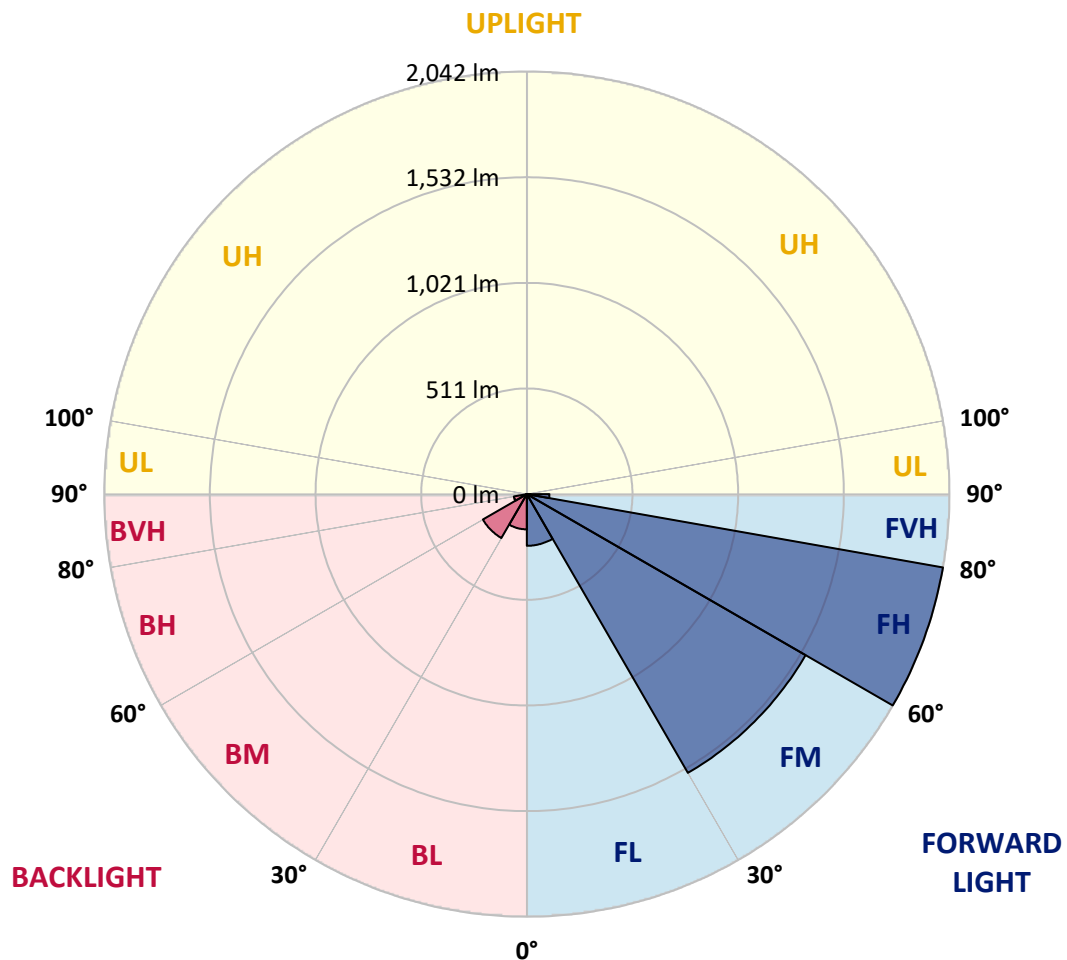
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.6	5.6			
FM (30°-60°)	1555.5	35.1			
FH (60°-80°)	2042.5	46.0			G2/5000
FVH (80°-90°)	109.4	2.5			G2/225
BL (0°-30°)	170.2	3.8	B1/500		
BM (30°-60°)	245.2	5.5	B1/1000		
BH (60°-80°)	63.7	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°	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3
2.5°	642.4	651.5	650.4	656.0	657.2	660.6	668.5	668.5	691.3	707.2	717.4
5°	584.4	578.7	581.0	587.8	604.9	603.7	623.1	633.3	660.6	683.3	707.2
7.5°	512.8	511.6	516.2	532.1	544.6	554.8	575.3	601.5	637.8	672.0	714.0
10°	467.3	465.0	474.1	478.7	493.5	500.3	532.1	573.0	616.2	665.1	714.0
12.5°	457.1	449.1	453.7	452.5	466.2	469.6	500.3	550.3	602.6	662.9	723.1
15°	462.8	457.1	452.5	452.5	455.9	458.2	491.2	535.5	594.6	666.3	743.6
17.5°	480.9	477.5	463.9	450.2	465.0	465.0	485.5	532.1	595.8	676.5	768.6
20°	502.5	499.1	475.3	459.3	469.6	480.9	502.5	540.1	599.2	684.5	807.3
22.5°	526.4	526.4	493.5	475.3	488.9	490.0	528.7	565.1	612.8	704.9	832.3
25°	556.0	553.7	521.9	501.4	506.0	518.5	553.7	592.4	637.8	733.4	878.9
27.5°	594.6	591.2	553.7	533.2	538.9	552.6	592.4	631.0	660.6	744.7	918.7
30°	626.5	623.1	592.4	561.7	574.2	586.7	633.3	667.4	689.0	766.3	964.2
32.5°	633.3	627.6	607.2	593.5	607.2	631.0	667.4	702.7	735.6	820.9	1050.6
35°	711.8	691.3	637.8	616.2	636.7	644.7	704.9	767.5	799.3	864.1	1147.2
37.5°	861.8	842.5	772.0	711.8	683.3	692.4	770.9	848.2	878.9	944.8	1253.0
40°	1046.0	1014.2	939.2	858.4	800.4	789.1	840.2	953.9	983.5	1046.0	1391.7
42.5°	1256.4	1225.7	1109.7	1014.2	955.1	940.3	948.2	1076.7	1101.7	1139.3	1482.6
45°	1407.6	1391.7	1260.9	1175.6	1129.0	1113.1	1093.8	1210.9	1242.7	1255.2	1614.5
47.5°	1495.1	1483.8	1411.0	1353.0	1290.5	1273.4	1285.9	1397.4	1375.8	1386.0	1740.7
50°	1612.2	1582.7	1483.8	1502.0	1489.5	1484.9	1506.5	1555.4	1523.6	1494.0	1878.3
52.5°	1706.6	1654.3	1585.0	1629.3	1648.6	1665.7	1741.9	1778.2	1636.1	1590.6	1967.0
55°	1764.6	1714.6	1732.8	1773.7	1794.2	1872.6	1962.4	1935.2	1710.0	1668.0	2085.2
57.5°	1816.9	1820.3	1869.2	1881.7	1986.3	2000.0	2172.8	2084.1	1762.3	1738.5	2131.9
60°	1943.1	1930.6	1970.4	2051.1	2151.2	2227.4	2392.2	2184.2	1788.5	1774.8	2119.3
62.5°	2170.5	2093.2	2106.8	2209.2	2355.8	2438.8	2518.4	2229.6	1781.7	1780.5	2081.8
65°	2459.3	2370.6	2329.7	2425.2	2615.1	2732.2	2660.6	2280.8	1736.2	1768.0	1942.0
67.5°	2699.2	2700.3	2624.2	2677.6	2925.5	2950.5	2794.7	2270.6	1660.0	1669.1	1600.9
70°	2975.5	3013.0	2945.9	3113.1	3237.0	3252.9	2948.2	2186.4	1496.3	1258.6	919.8
72.5°	3046.0	3065.3	3274.5	3531.5	3671.3	3675.9	3099.4	1905.6	984.6	556.0	285.4
75°	2392.2	2410.4	3151.7	3720.2	3928.3	3888.5	2847.0	1237.0	383.2	162.6	68.2
77.5°	1334.8	1340.5	1956.8	3007.3	3332.5	3172.2	1994.3	482.1	154.6	93.2	31.8
80°	365.0	428.6	725.4	1482.6	2035.2	1997.7	949.4	156.9	100.1	72.8	14.8
82.5°	87.5	94.4	233.1	656.0	1075.6	1122.2	283.1	79.6	69.4	60.3	8.0
85°	31.8	35.2	71.6	319.5	552.6	507.1	85.3	39.8	51.2	46.6	3.4
87.5°	11.4	11.4	22.7	104.6	161.5	121.7	28.4	13.6	26.2	28.4	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°	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3
2.5°	718.6	718.6	734.5	748.1	752.7	758.4	752.7	765.2	764.1	758.4	760.6
5°	719.7	740.2	753.8	762.9	767.5	766.3	768.6	755.0	747.0	741.3	735.6
7.5°	725.4	744.7	769.7	767.5	755.0	728.8	708.3	672.0	636.7	635.6	629.9
10°	744.7	761.8	776.6	767.5	722.0	642.4	577.6	528.7	484.4	463.9	466.2
12.5°	758.4	790.2	783.4	736.8	642.4	537.8	442.3	370.7	330.9	293.3	293.3
15°	786.8	798.2	795.9	692.4	544.6	419.5	303.6	230.8	188.7	171.7	169.4
17.5°	814.1	826.6	787.9	625.3	448.0	282.0	184.2	143.3	137.6	135.3	136.4
20°	848.2	849.3	781.1	558.3	336.5	178.5	131.9	128.5	129.6	128.5	128.5
22.5°	884.6	892.5	757.2	463.9	224.0	129.6	122.8	123.9	123.9	123.9	127.3
25°	932.3	919.8	719.7	374.1	146.7	119.4	119.4	120.5	120.5	120.5	121.7
27.5°	964.2	947.1	672.0	269.5	114.8	112.6	114.8	114.8	117.1	117.1	117.1
30°	1030.1	985.8	611.7	174.0	103.5	106.9	109.2	111.4	112.6	114.8	116.0
32.5°	1081.3	1019.9	536.7	116.0	94.4	96.6	102.3	106.9	111.4	110.3	110.3
35°	1174.5	1075.6	467.3	92.1	86.4	86.4	92.1	100.1	106.9	109.2	109.2
37.5°	1281.4	1121.1	370.7	84.1	79.6	79.6	83.0	92.1	101.2	105.7	103.5
40°	1370.1	1173.4	274.0	78.5	73.9	73.9	76.2	83.0	93.2	101.2	102.3
42.5°	1432.6	1212.0	185.3	72.8	69.4	68.2	71.6	75.0	83.0	94.4	96.6
45°	1489.5	1232.5	114.8	67.1	64.8	64.8	64.8	68.2	73.9	84.1	86.4
47.5°	1590.6	1255.2	83.0	62.5	59.1	60.3	61.4	62.5	67.1	69.4	70.5
50°	1675.9	1272.3	68.2	58.0	55.7	56.8	56.8	56.8	59.1	55.7	55.7
52.5°	1740.7	1255.2	58.0	53.4	51.2	52.3	51.2	51.2	48.9	44.3	44.3
55°	1788.5	1224.5	46.6	48.9	48.9	48.9	46.6	43.2	38.7	35.2	35.2
57.5°	1801.0	1172.2	36.4	40.9	44.3	44.3	39.8	35.2	29.6	26.2	25.0
60°	1781.7	1058.5	27.3	29.6	34.1	35.2	31.8	26.2	20.5	17.1	17.1
62.5°	1712.3	968.7	21.6	19.3	25.0	26.2	22.7	17.1	11.4	8.0	6.8
65°	1580.4	830.0	15.9	13.6	17.1	18.2	14.8	8.0	3.4	1.1	0.0
67.5°	1267.7	625.3	10.2	9.1	11.4	11.4	6.8	2.3	0.0	0.0	0.0
70°	701.5	351.3	6.8	4.5	5.7	3.4	1.1	0.0	0.0	0.0	0.0
72.5°	202.4	100.1	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	54.6	23.9	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.9	9.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	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)