

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: P676731

Luminaire Tested: **CCW-SA-1D-760-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676731
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-760-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

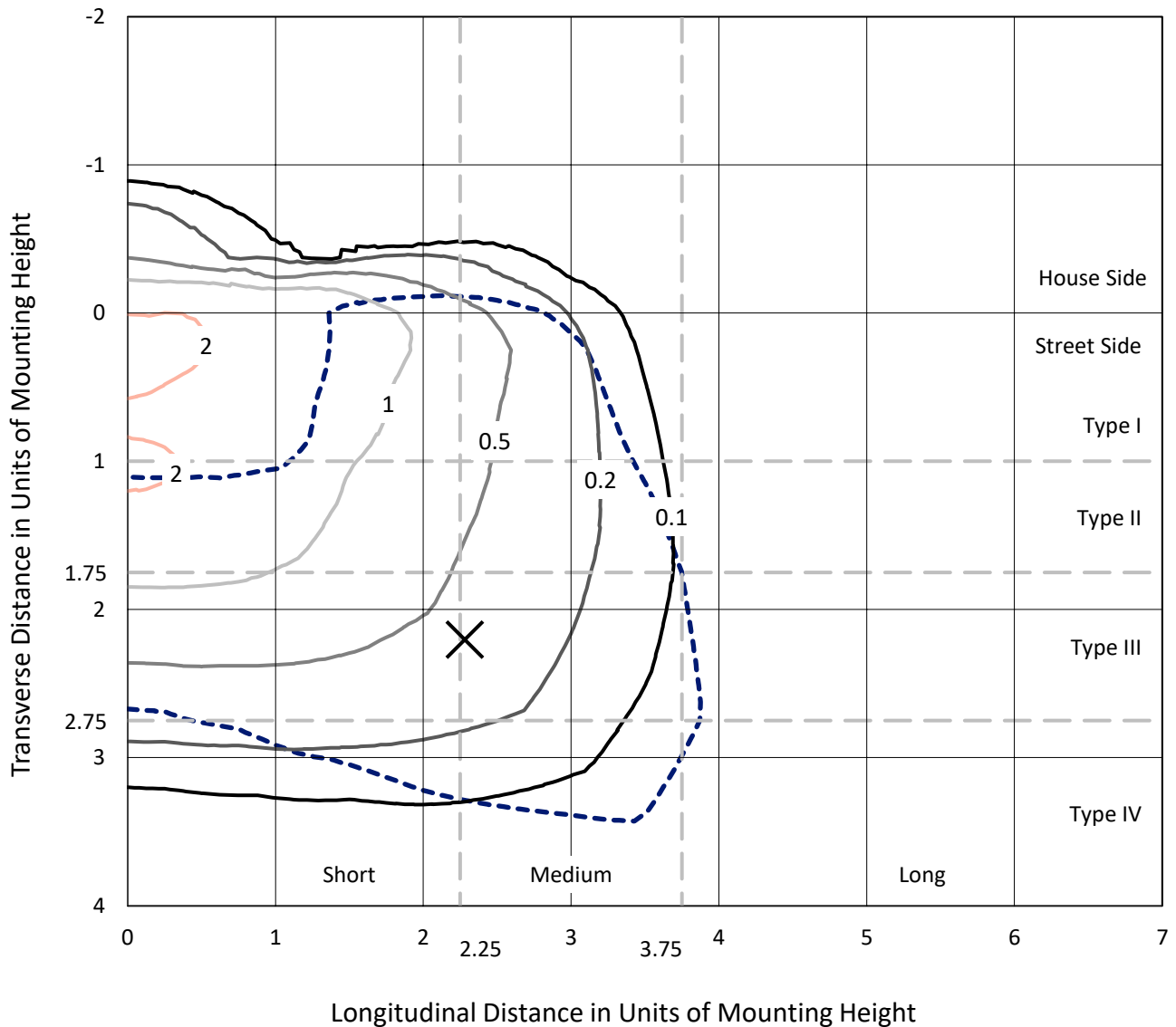
Lumens per Lamp: N/A
Luminaire Lumens: 4115.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

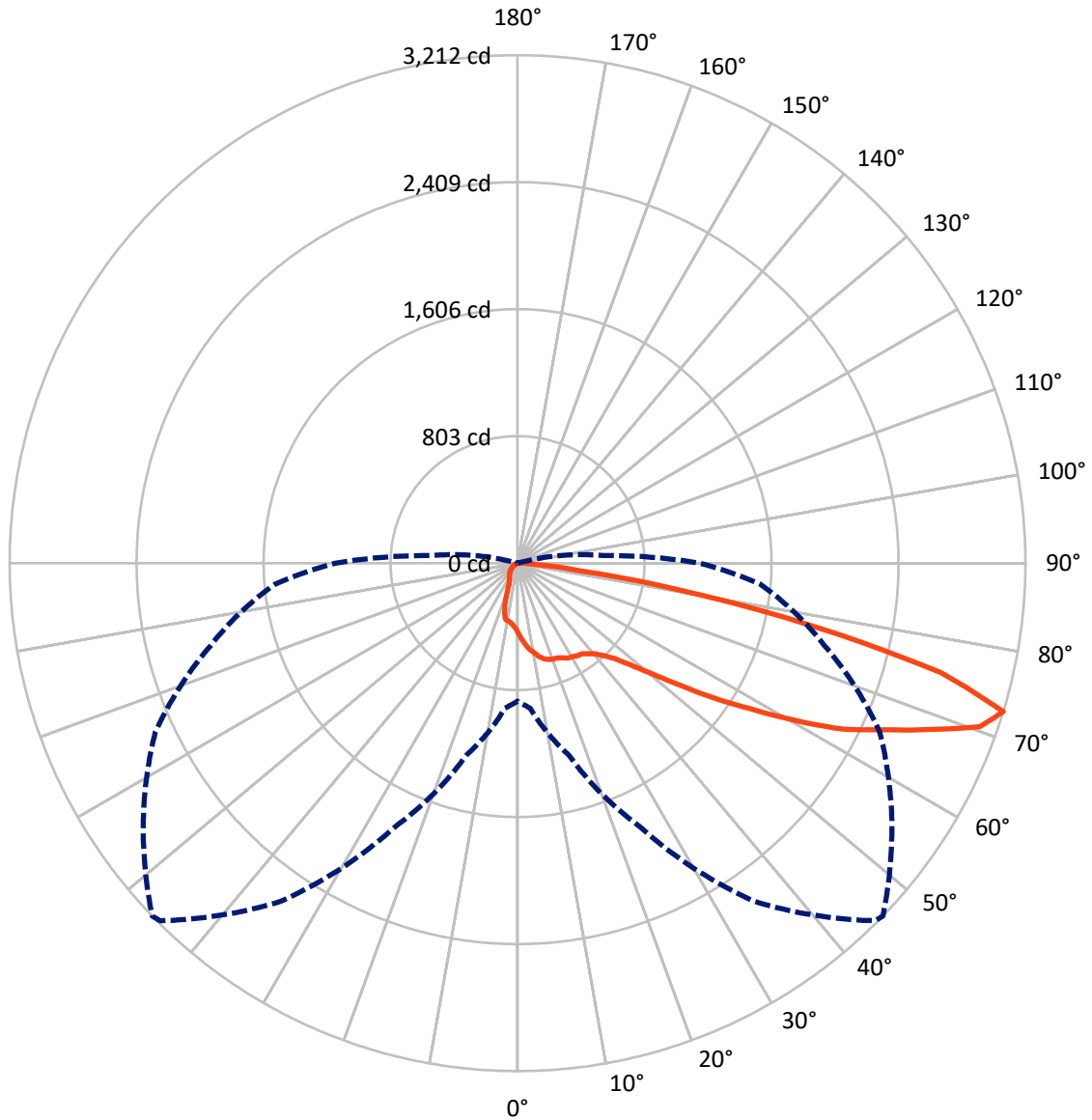
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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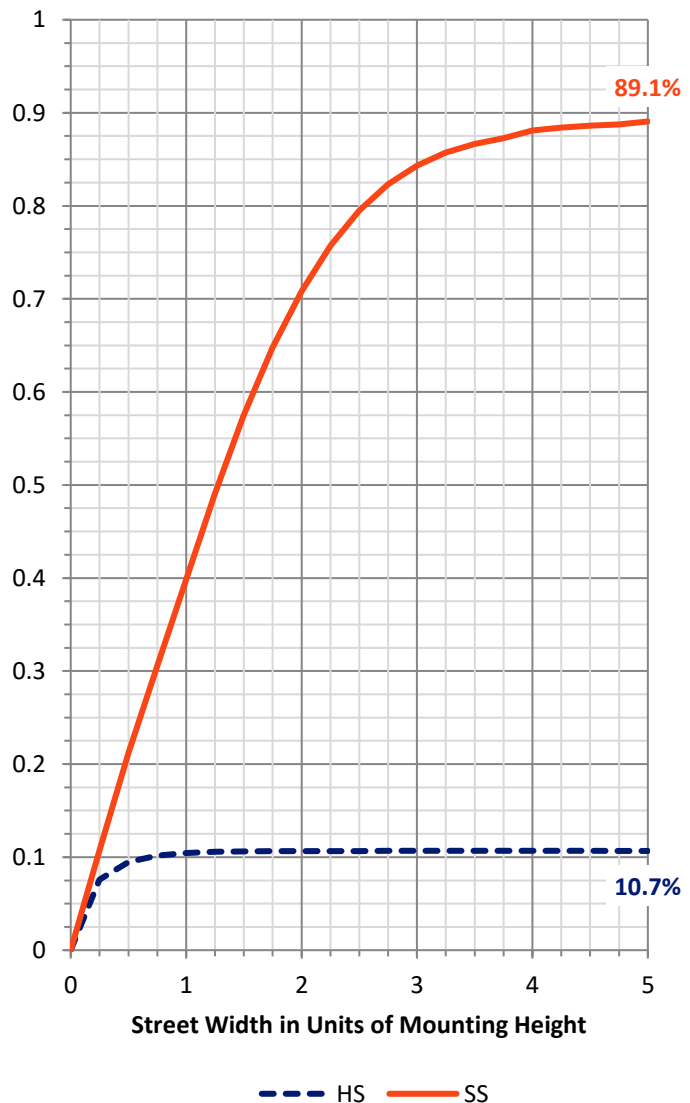
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.1	0.0	443.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3672.6	0.0	3672.6
	% Fixture	89.2	0.0	89.2
Total	Lumens	4115.7	0.0	4115.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.1
10°-20°	132.9	3.2
20°-30°	208.1	5.1
30°-40°	291.4	7.1
40°-50°	480.5	11.7
50°-60°	863.7	21.0
60°-70°	1251.8	30.4
70°-80°	781.3	19.0
80°-90°	61.9	1.5
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°	4115.7	100.0
0°-180°	4115.7	100.0



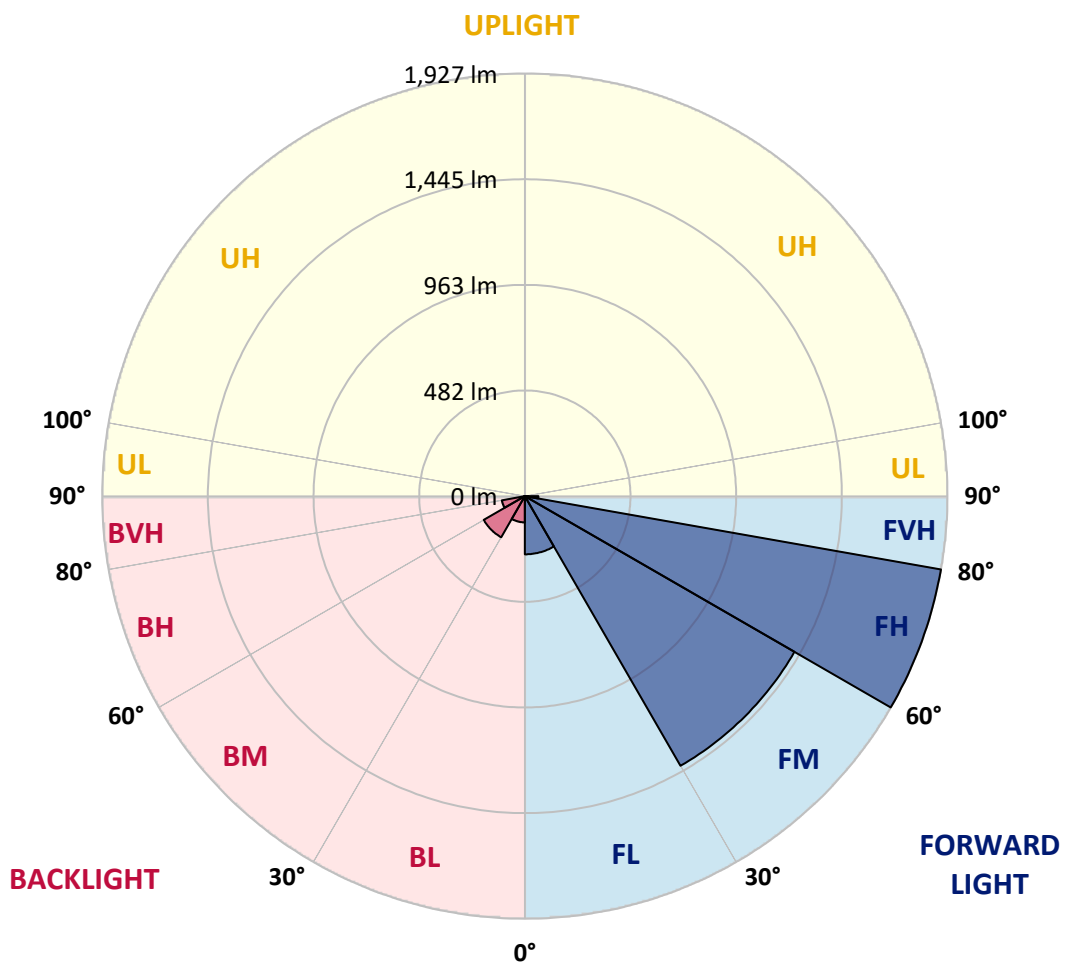
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.3	6.4			
FM (30°-60°)	1419.2	34.5			
FH (60°-80°)	1926.6	46.8			G2/5000
FVH (80°-90°)	61.6	1.5			G1/100
BL (0°-30°)	119.7	2.9	B1/500		
BM (30°-60°)	216.4	5.3	B0/220		
BH (60°-80°)	106.5	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9
2.5°	492.4	490.3	493.4	492.4	479.8	481.9	480.8	472.4	457.7	449.3	444.1
5°	549.1	554.3	550.1	540.7	533.3	518.6	516.5	502.9	479.8	465.1	449.3
7.5°	607.8	607.8	599.4	584.7	569.0	553.3	551.2	528.1	508.1	482.9	460.9
10°	651.9	646.7	640.4	624.6	606.8	585.8	575.3	558.5	536.5	506.0	477.7
12.5°	690.8	682.4	671.9	648.8	627.8	604.7	606.8	579.5	564.8	537.5	495.5
15°	712.8	705.5	696.0	675.0	642.5	632.0	627.8	611.0	584.7	557.5	517.6
17.5°	718.1	712.8	700.2	672.9	655.1	642.5	641.4	621.5	609.9	586.8	542.8
20°	707.6	698.1	688.7	670.8	654.0	649.8	646.7	646.7	632.0	601.5	558.5
22.5°	689.7	679.2	674.0	663.5	649.8	648.8	650.9	648.8	637.2	617.3	575.3
25°	676.1	670.8	662.4	659.3	650.9	666.6	663.5	660.3	657.2	634.1	601.5
27.5°	680.3	679.2	672.9	660.3	654.0	670.8	680.3	681.3	680.3	657.2	625.7
30°	682.4	677.1	670.8	667.7	669.8	686.6	686.6	709.7	700.2	677.1	649.8
32.5°	706.5	703.4	682.4	675.0	676.1	696.0	697.1	720.2	717.0	701.3	670.8
35°	758.0	737.0	706.5	685.5	685.5	711.8	703.4	737.0	745.4	720.2	685.5
37.5°	834.6	818.9	764.3	717.0	699.2	718.1	726.5	745.4	770.6	748.5	714.9
40°	986.8	983.7	906.0	804.2	733.8	750.6	753.8	783.2	800.0	769.5	760.1
42.5°	1209.4	1193.6	1121.2	960.6	796.8	789.5	801.0	819.9	859.8	834.6	811.5
45°	1426.7	1419.4	1346.9	1167.4	911.2	867.2	860.9	894.4	953.2	925.9	908.1
47.5°	1584.2	1569.5	1528.5	1377.4	1079.2	958.5	962.7	996.3	1070.8	1049.8	1055.1
50°	1704.9	1697.6	1654.5	1571.6	1291.3	1102.3	1093.9	1127.5	1228.3	1241.9	1256.6
52.5°	1837.2	1850.8	1793.1	1722.8	1542.2	1295.5	1276.6	1288.1	1418.3	1449.8	1490.7
55°	1964.2	1986.3	1928.5	1919.1	1804.6	1509.6	1506.5	1479.2	1647.2	1651.4	1673.4
57.5°	2047.1	2039.8	2035.6	2087.0	2067.1	1755.3	1739.6	1712.3	1864.5	1837.2	1903.3
60°	2053.4	2074.4	2144.8	2271.8	2307.5	2044.0	2020.9	1946.4	2052.4	1987.3	2113.3
62.5°	2100.7	2117.5	2247.7	2423.0	2469.2	2298.1	2313.8	2124.8	2213.0	2161.6	2346.3
65°	1981.0	2033.5	2294.9	2540.6	2681.2	2555.3	2539.5	2354.7	2377.8	2329.5	2576.3
67.5°	1872.9	1892.8	2165.8	2576.3	2849.2	2813.5	2807.2	2558.4	2547.9	2458.7	2641.3
70°	1522.2	1546.4	1816.2	2393.6	2905.9	3114.8	3100.1	2844.0	2663.4	2388.3	2307.5
72.5°	872.4	920.7	1258.7	1843.5	2610.9	3198.8	3212.4	2890.2	2526.9	2008.3	1541.1
75°	285.6	299.2	522.8	1044.6	1952.7	2790.4	2766.3	2483.9	2038.7	1325.9	696.0
77.5°	96.6	98.7	154.3	377.9	1082.4	1885.5	1899.1	1775.2	1252.4	551.2	192.1
80°	49.3	52.5	75.6	141.7	445.1	1026.7	1048.8	1012.0	524.9	162.7	46.2
82.5°	23.1	24.1	44.1	78.7	203.7	403.1	403.1	443.0	185.8	91.3	18.9
85°	8.4	8.4	23.1	45.1	86.1	134.4	135.4	136.5	97.6	68.2	8.4
87.5°	3.1	3.1	11.5	18.9	31.5	40.9	40.9	32.5	49.3	45.1	3.1
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°	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9	439.9
2.5°	442.0	435.7	430.4	423.1	413.6	408.4	409.4	403.1	403.1	400.0	398.9
5°	442.0	435.7	422.0	409.4	401.0	390.5	385.3	381.1	381.1	379.0	380.0
7.5°	445.1	435.7	416.8	400.0	386.3	375.8	367.4	366.4	364.3	359.0	363.2
10°	464.0	450.4	418.9	395.8	380.0	368.5	353.8	349.6	343.3	333.8	334.9
12.5°	479.8	461.9	433.6	402.1	382.1	363.2	329.6	292.9	277.2	260.4	261.4
15°	502.9	477.7	438.8	410.5	382.1	321.2	260.4	213.1	187.9	175.3	175.3
17.5°	515.5	494.5	453.5	415.7	351.7	261.4	184.8	143.8	139.6	141.7	141.7
20°	541.7	513.4	470.3	419.9	301.3	185.8	135.4	131.2	133.3	137.5	136.5
22.5°	558.5	530.2	482.9	401.0	233.1	133.3	127.0	124.9	127.0	132.3	132.3
25°	572.2	554.3	502.9	354.8	164.8	120.7	118.6	120.7	122.8	124.9	128.1
27.5°	605.7	575.3	516.5	295.0	118.6	112.3	114.4	115.5	115.5	118.6	119.7
30°	627.8	603.6	527.0	227.8	105.0	103.9	106.0	107.1	108.1	111.3	112.3
32.5°	648.8	640.4	513.4	154.3	98.7	96.6	95.5	96.6	100.8	103.9	102.9
35°	679.2	674.0	493.4	107.1	92.4	88.2	86.1	87.1	90.3	93.4	92.4
37.5°	716.0	721.2	445.1	93.4	86.1	80.8	76.6	76.6	77.7	80.8	81.9
40°	759.0	772.7	388.4	87.1	81.9	75.6	71.4	66.1	65.1	64.0	65.1
42.5°	837.8	853.5	324.4	82.9	75.6	68.2	61.9	55.6	50.4	47.2	47.2
45°	948.0	935.4	240.4	78.7	72.4	61.9	52.5	45.1	37.8	34.6	34.6
47.5°	1100.2	1057.2	164.8	74.5	67.2	54.6	44.1	34.6	28.3	25.2	25.2
50°	1311.2	1169.5	107.1	70.3	64.0	47.2	35.7	25.2	21.0	19.9	21.0
52.5°	1510.7	1283.9	85.0	65.1	57.7	40.9	27.3	21.0	18.9	17.8	17.8
55°	1694.4	1341.7	75.6	59.8	52.5	33.6	23.1	17.8	16.8	15.7	15.7
57.5°	1849.8	1361.6	65.1	52.5	42.0	26.2	18.9	15.7	13.6	12.6	12.6
60°	1984.2	1366.9	50.4	42.0	30.4	19.9	15.7	13.6	11.5	9.4	9.4
62.5°	2091.2	1330.1	35.7	29.4	21.0	15.7	13.6	9.4	6.3	4.2	3.1
65°	2176.3	1256.6	24.1	19.9	13.6	11.5	8.4	4.2	1.0	0.0	0.0
67.5°	2076.5	1089.7	18.9	14.7	9.4	7.3	4.2	1.0	0.0	0.0	0.0
70°	1693.4	845.1	13.6	9.4	6.3	2.1	1.0	0.0	0.0	0.0	0.0
72.5°	1152.7	544.9	10.5	6.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	517.6	195.3	7.3	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	126.0	46.2	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.6	11.5	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	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)