

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: P676768

Luminaire Tested: **CCW-SA-2B-835-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676768  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-835-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

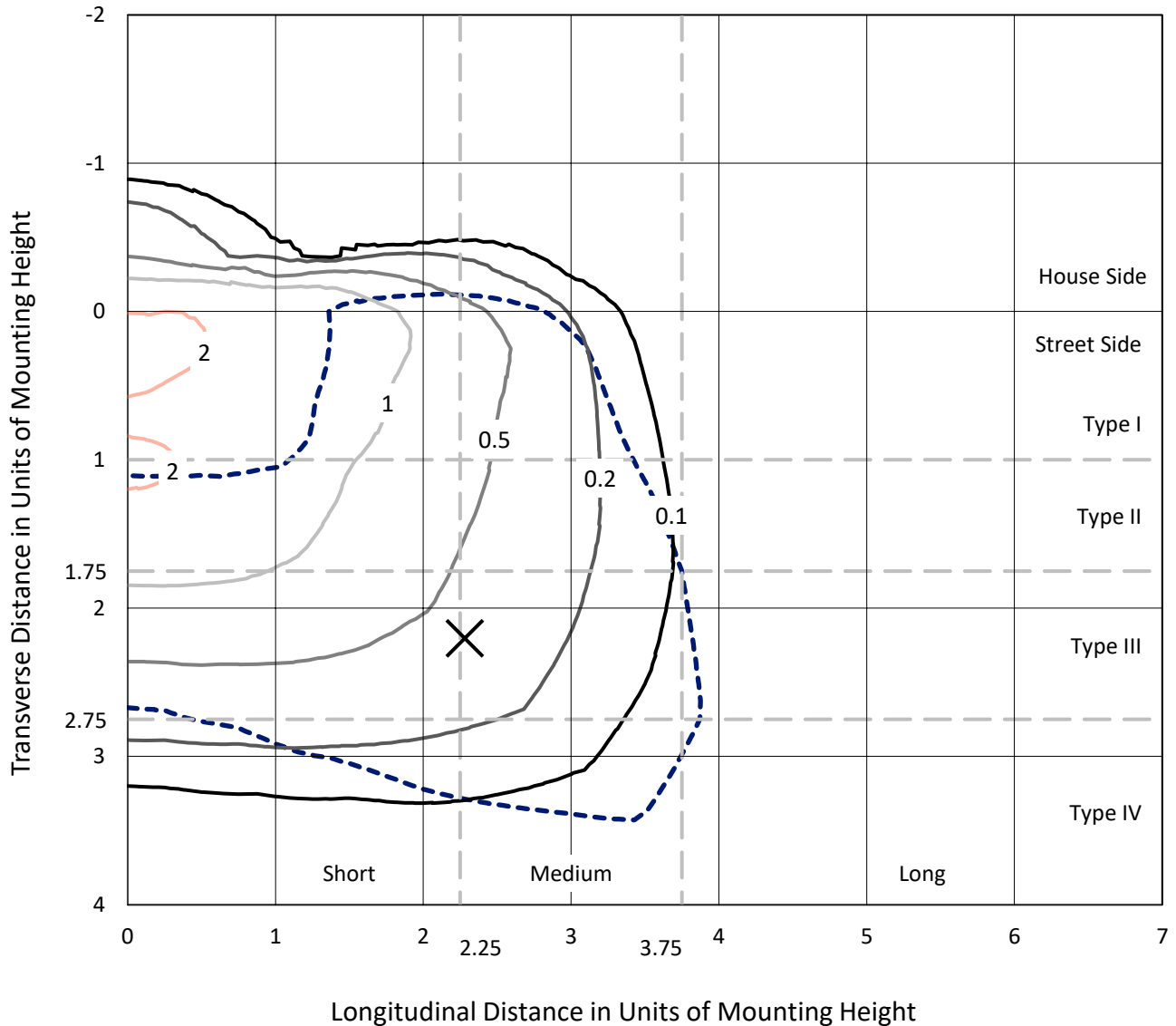
Lumens per Lamp: N/A  
Luminaire Lumens: 4105.7 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: CCW-SA-2B-835-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

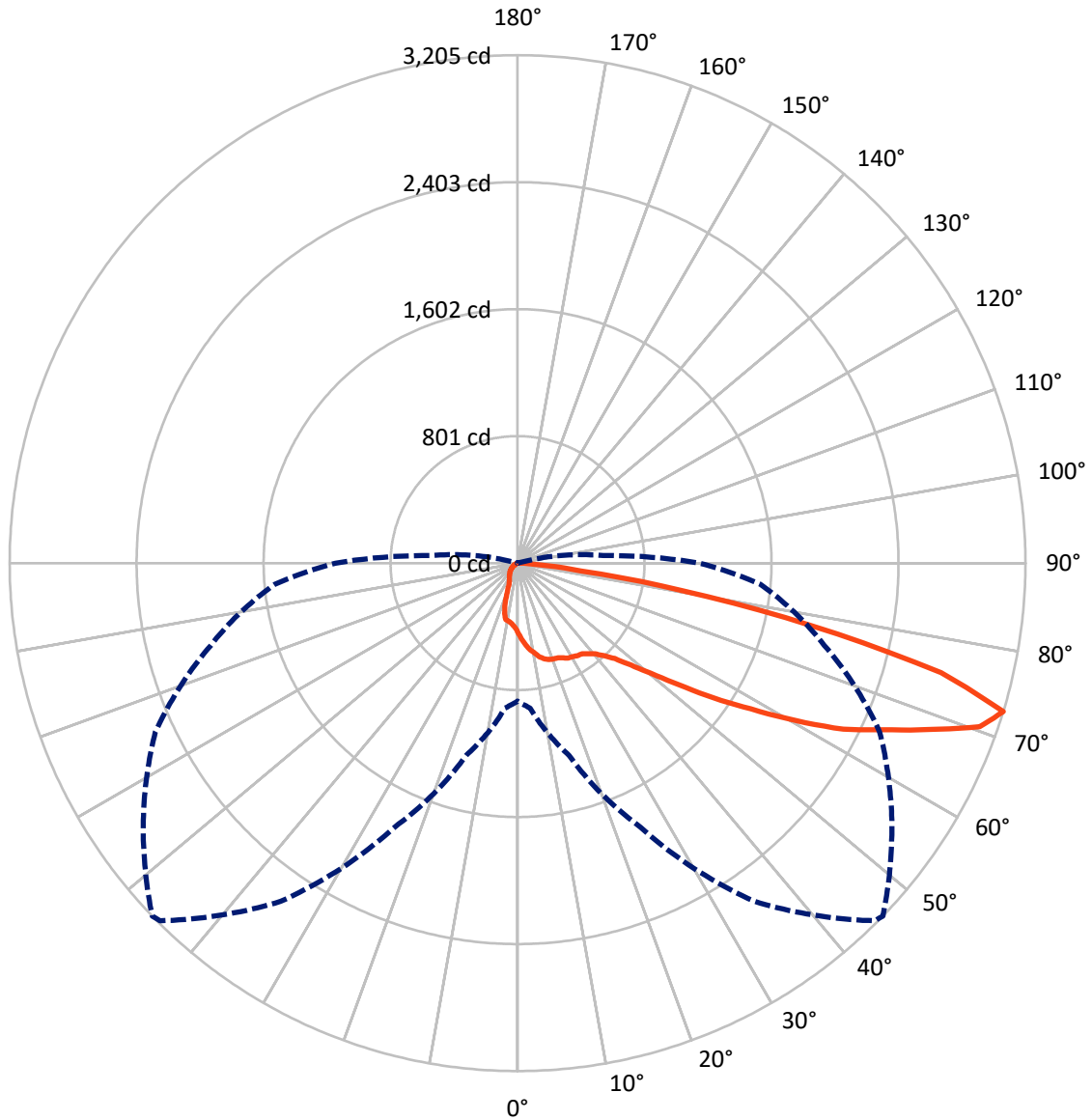
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P676768  
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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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 CATALOG NUMBER: CCW-SA-2B-835-U-T4W-HSS

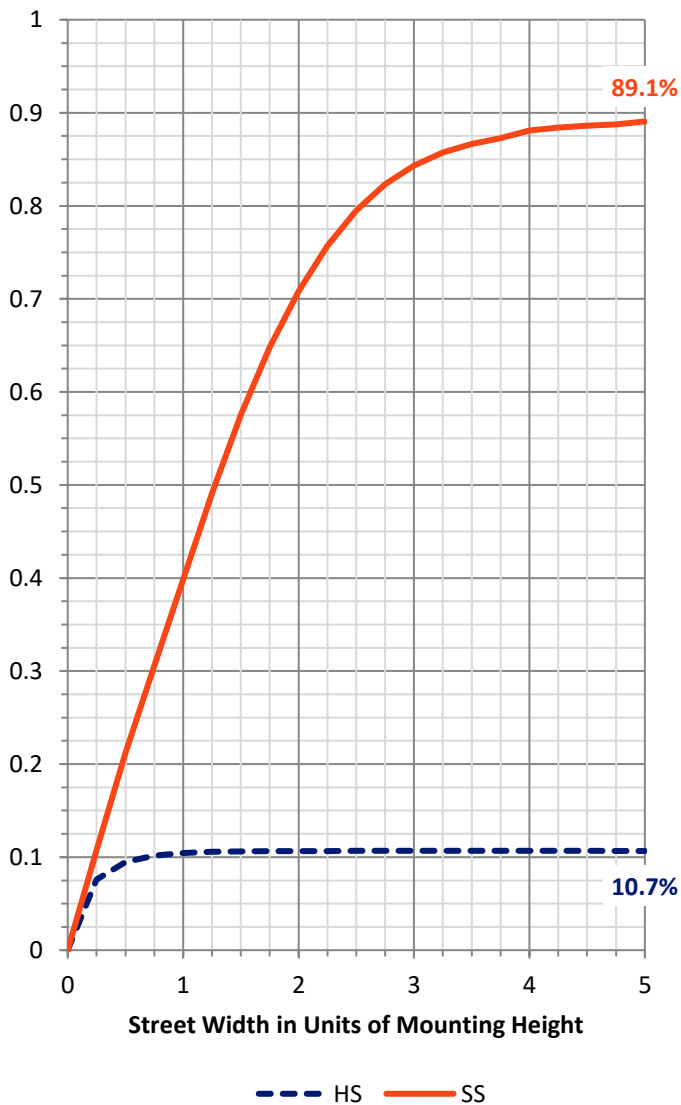
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	442.0	0.0	442.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3663.7	0.0	3663.7
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4105.7	0.0	4105.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	1.1
10°-20°	132.6	3.2
20°-30°	207.6	5.1
30°-40°	290.7	7.1
40°-50°	479.4	11.7
50°-60°	861.6	21.0
60°-70°	1248.8	30.4
70°-80°	779.4	19.0
80°-90°	61.8	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°	4105.7	100.0
0°-180°	4105.7	100.0

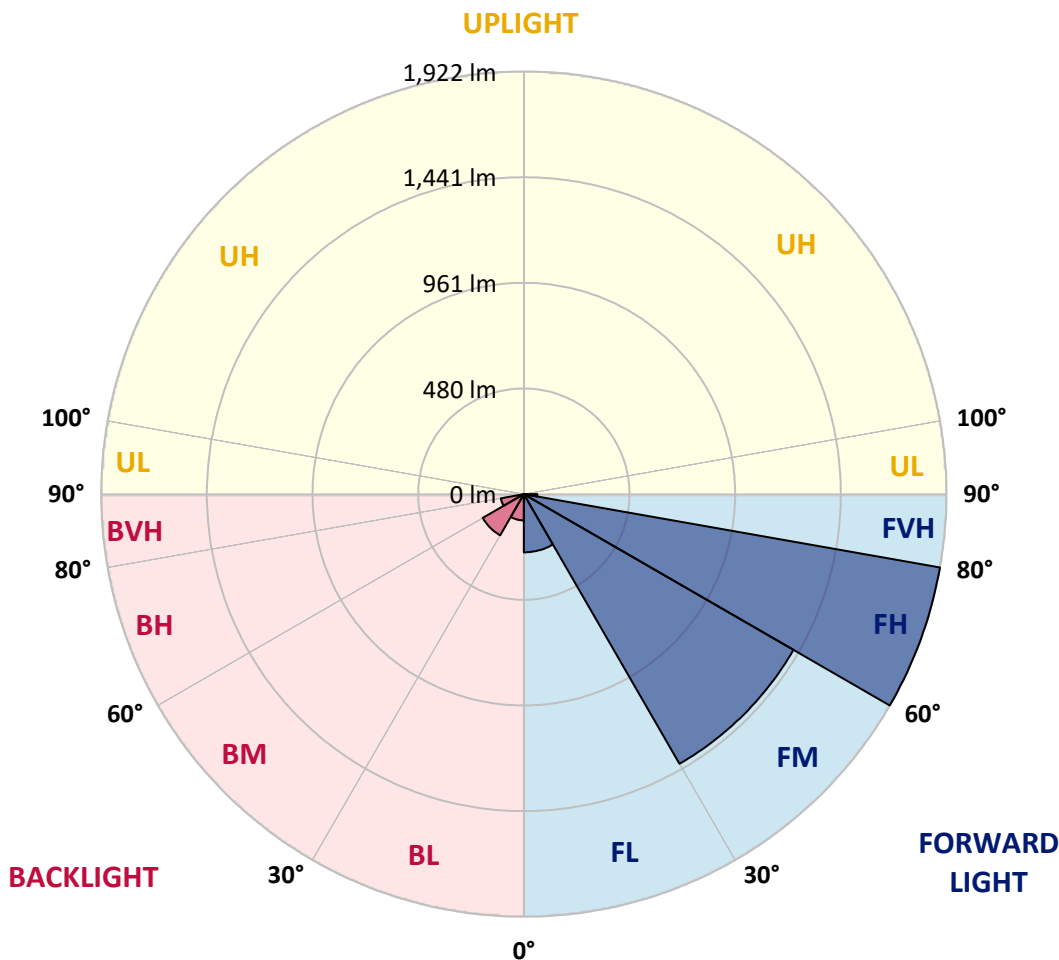


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.6	6.4			
FM (30°-60°)	1415.7	34.5			
FH (60°-80°)	1921.9	46.8			G2/5000
FVH (80°-90°)	61.4	1.5			G1/100
BL (0°-30°)	119.5	2.9	B1/500		
BM (30°-60°)	215.9	5.3	B0/220		
BH (60°-80°)	106.3	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°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	491.2	489.1	492.2	491.2	478.6	480.7	479.6	471.3	456.6	448.2	443.0
5°	547.7	553.0	548.8	539.3	532.0	517.3	515.3	501.6	478.6	463.9	448.2
7.5°	606.4	606.4	598.0	583.3	567.6	551.9	549.8	526.8	506.9	481.7	459.7
10°	650.4	645.1	638.8	623.1	605.3	584.4	573.9	557.1	535.2	504.8	476.5
12.5°	689.1	680.7	670.2	647.2	626.3	603.2	605.3	578.1	563.4	536.2	494.3
15°	711.1	703.8	694.3	673.4	640.9	630.5	626.3	609.5	583.3	556.1	516.3
17.5°	716.3	711.1	698.5	671.3	653.5	640.9	639.9	620.0	608.5	585.4	541.4
20°	705.9	696.4	687.0	669.2	652.4	648.3	645.1	645.1	630.5	600.1	557.1
22.5°	688.1	677.6	672.3	661.9	648.3	647.2	649.3	647.2	635.7	615.8	573.9
25°	674.4	669.2	660.8	657.7	649.3	665.0	661.9	658.7	655.6	632.5	600.1
27.5°	678.6	677.6	671.3	658.7	652.4	669.2	678.6	679.7	678.6	655.6	624.2
30°	680.7	675.5	669.2	666.1	668.2	684.9	684.9	707.9	698.5	675.5	648.3
32.5°	704.8	701.7	680.7	673.4	674.4	694.3	695.4	718.4	715.3	699.6	669.2
35°	756.1	735.2	704.8	683.9	683.9	710.0	701.7	735.2	743.6	718.4	683.9
37.5°	832.6	816.9	762.4	715.3	697.5	716.3	724.7	743.6	768.7	746.7	713.2
40°	984.4	981.3	903.8	802.2	732.0	748.8	751.9	781.3	798.0	767.6	758.2
42.5°	1206.4	1190.7	1118.5	958.2	794.9	787.5	799.1	817.9	857.7	832.6	809.5
45°	1423.2	1415.9	1343.6	1164.6	909.0	865.0	858.8	892.3	950.9	923.7	905.9
47.5°	1580.3	1565.7	1524.8	1374.0	1076.6	956.2	960.3	993.9	1068.2	1047.3	1052.5
50°	1700.8	1693.4	1650.5	1567.8	1288.1	1099.6	1091.2	1124.8	1225.3	1238.9	1253.6
52.5°	1832.7	1846.3	1788.7	1718.6	1538.4	1292.3	1273.5	1285.0	1414.9	1446.3	1487.1
55°	1959.4	1981.4	1923.8	1914.4	1800.2	1506.0	1502.8	1475.6	1643.2	1647.3	1669.3
57.5°	2042.2	2034.8	2030.6	2082.0	2062.1	1751.0	1735.3	1708.1	1859.9	1832.7	1898.7
60°	2048.4	2069.4	2139.6	2266.3	2301.9	2039.0	2016.0	1941.6	2047.4	1982.5	2108.1
62.5°	2095.6	2112.3	2242.2	2417.1	2463.2	2292.5	2308.2	2119.7	2207.6	2156.3	2340.6
65°	1976.2	2028.5	2289.3	2534.4	2674.7	2549.0	2533.3	2349.0	2372.1	2323.9	2570.0
67.5°	1868.3	1888.2	2160.5	2570.0	2842.3	2806.7	2800.4	2552.2	2541.7	2452.7	2634.9
70°	1518.5	1542.6	1811.8	2387.8	2898.8	3107.2	3092.6	2837.0	2656.9	2382.5	2301.9
72.5°	870.3	918.4	1255.7	1839.0	2604.5	3191.0	3204.6	2883.1	2520.8	2003.4	1537.4
75°	284.9	298.5	521.5	1042.0	1947.9	2783.6	2759.5	2477.8	2033.8	1322.7	694.3
77.5°	96.3	98.4	153.9	377.0	1079.7	1880.9	1894.5	1770.9	1249.4	549.8	191.6
80°	49.2	52.4	75.4	141.4	444.0	1024.2	1046.2	1009.6	523.6	162.3	46.1
82.5°	23.0	24.1	44.0	78.5	203.2	402.1	402.1	441.9	185.4	91.1	18.9
85°	8.4	8.4	23.0	45.0	85.9	134.0	135.1	136.1	97.4	68.1	8.4
87.5°	3.1	3.1	11.5	18.9	31.4	40.8	40.8	32.5	49.2	45.0	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°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	440.9	434.6	429.4	422.0	412.6	407.4	408.4	402.1	402.1	399.0	398.0
5°	440.9	434.6	421.0	408.4	400.1	389.6	384.3	380.2	380.2	378.1	379.1
7.5°	444.0	434.6	415.8	399.0	385.4	374.9	366.5	365.5	363.4	358.2	362.4
10°	462.9	449.3	417.9	394.8	379.1	367.6	352.9	348.7	342.5	333.0	334.1
12.5°	478.6	460.8	432.5	401.1	381.2	362.4	328.8	292.2	276.5	259.7	260.8
15°	501.6	476.5	437.8	409.5	381.2	320.5	259.7	212.6	187.5	174.9	174.9
17.5°	514.2	493.3	452.4	414.7	350.8	260.8	184.3	143.5	139.3	141.4	141.4
20°	540.4	512.1	469.2	418.9	300.6	185.4	135.1	130.9	133.0	137.2	136.1
22.5°	557.1	528.9	481.7	400.1	232.5	133.0	126.7	124.6	126.7	132.0	132.0
25°	570.8	553.0	501.6	354.0	164.4	120.4	118.3	120.4	122.5	124.6	127.8
27.5°	604.3	573.9	515.3	294.3	118.3	112.1	114.2	115.2	115.2	118.3	119.4
30°	626.3	602.2	525.7	227.3	104.7	103.7	105.8	106.8	107.9	111.0	112.1
32.5°	647.2	638.8	512.1	153.9	98.4	96.3	95.3	96.3	100.5	103.7	102.6
35°	677.6	672.3	492.2	106.8	92.2	88.0	85.9	86.9	90.1	93.2	92.2
37.5°	714.2	719.5	444.0	93.2	85.9	80.6	76.5	76.5	77.5	80.6	81.7
40°	757.2	770.8	387.5	86.9	81.7	75.4	71.2	66.0	64.9	63.9	64.9
42.5°	835.7	851.4	323.6	82.7	75.4	68.1	61.8	55.5	50.3	47.1	47.1
45°	945.7	933.1	239.8	78.5	72.3	61.8	52.4	45.0	37.7	34.6	34.6
47.5°	1097.5	1054.6	164.4	74.4	67.0	54.5	44.0	34.6	28.3	25.1	25.1
50°	1308.0	1166.7	106.8	70.2	63.9	47.1	35.6	25.1	20.9	19.9	20.9
52.5°	1507.0	1280.8	84.8	64.9	57.6	40.8	27.2	20.9	18.9	17.8	17.8
55°	1690.3	1338.4	75.4	59.7	52.4	33.5	23.0	17.8	16.8	15.7	15.7
57.5°	1845.3	1358.3	64.9	52.4	41.9	26.2	18.9	15.7	13.6	12.6	12.6
60°	1979.3	1363.5	50.3	41.9	30.4	19.9	15.7	13.6	11.5	9.4	9.4
62.5°	2086.1	1326.9	35.6	29.3	20.9	15.7	13.6	9.4	6.3	4.2	3.1
65°	2171.0	1253.6	24.1	19.9	13.6	11.5	8.4	4.2	1.0	0.0	0.0
67.5°	2071.5	1087.1	18.9	14.7	9.4	7.3	4.2	1.0	0.0	0.0	0.0
70°	1689.2	843.0	13.6	9.4	6.3	2.1	1.0	0.0	0.0	0.0	0.0
72.5°	1149.9	543.5	10.5	6.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	516.3	194.8	7.3	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	125.7	46.1	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.5	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)