

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: P676710

Luminaire Tested: **CCW-SA-1E-740-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676710
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-740-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

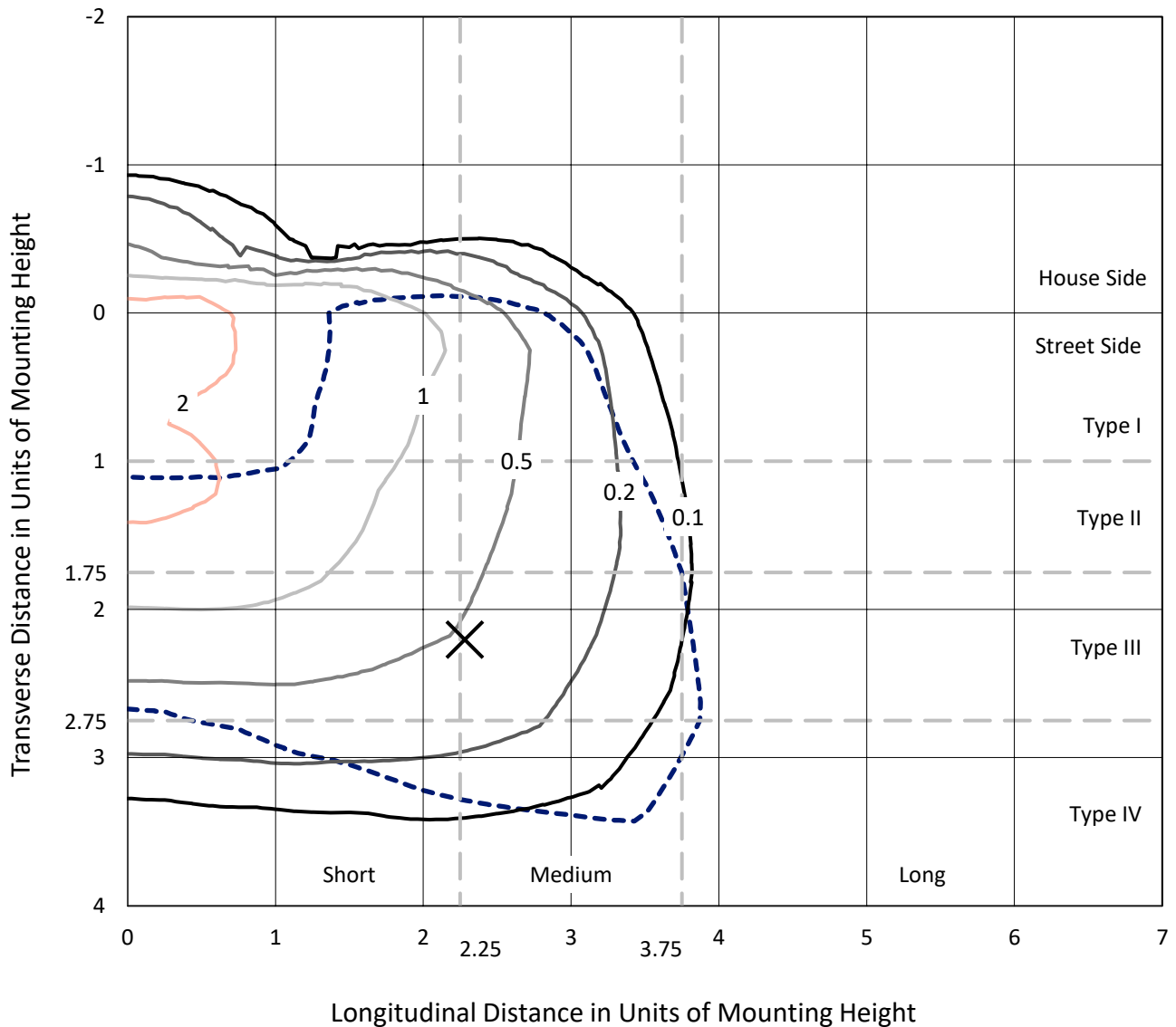
Lumens per Lamp: N/A
Luminaire Lumens: 4932.8 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

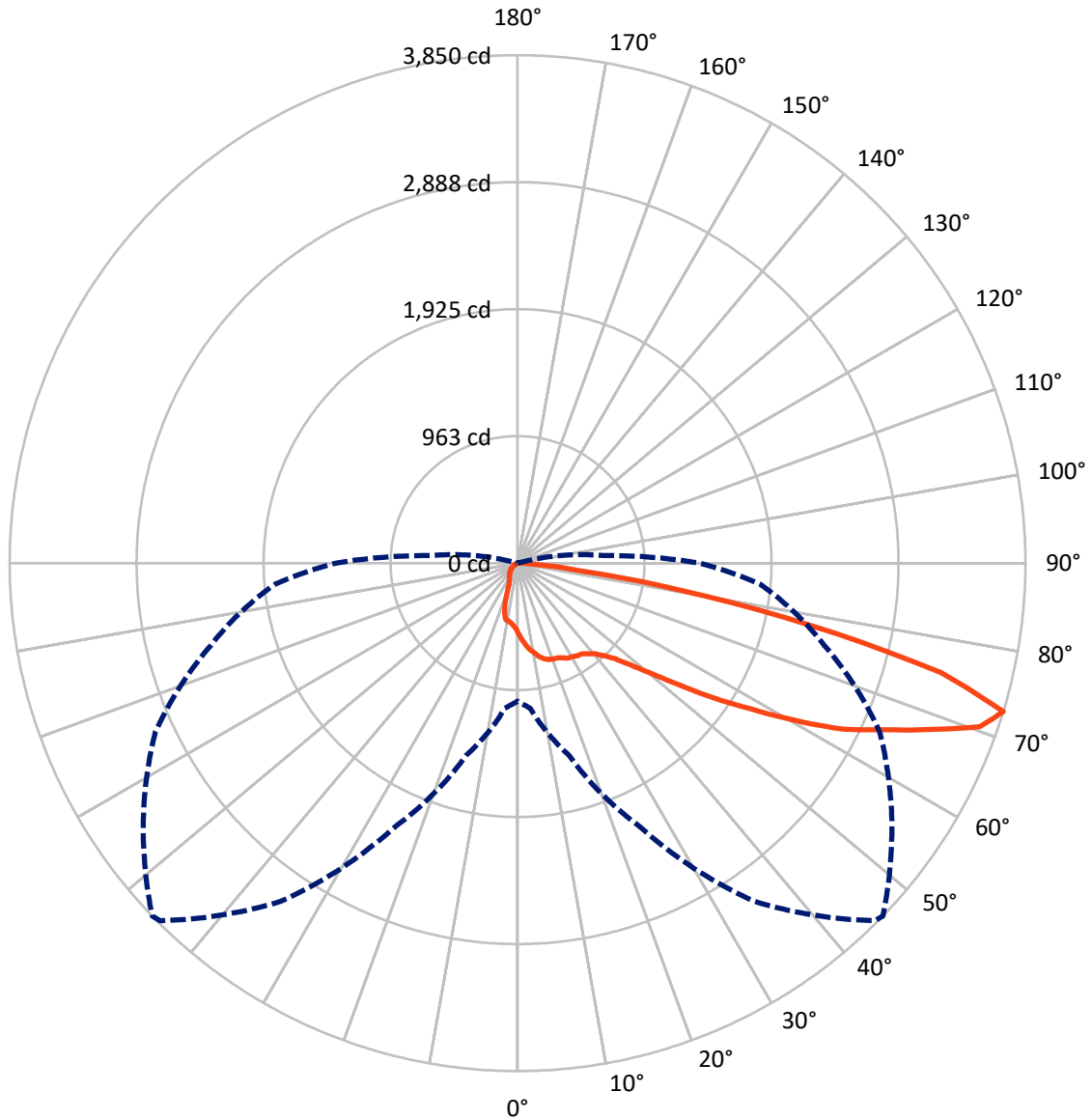
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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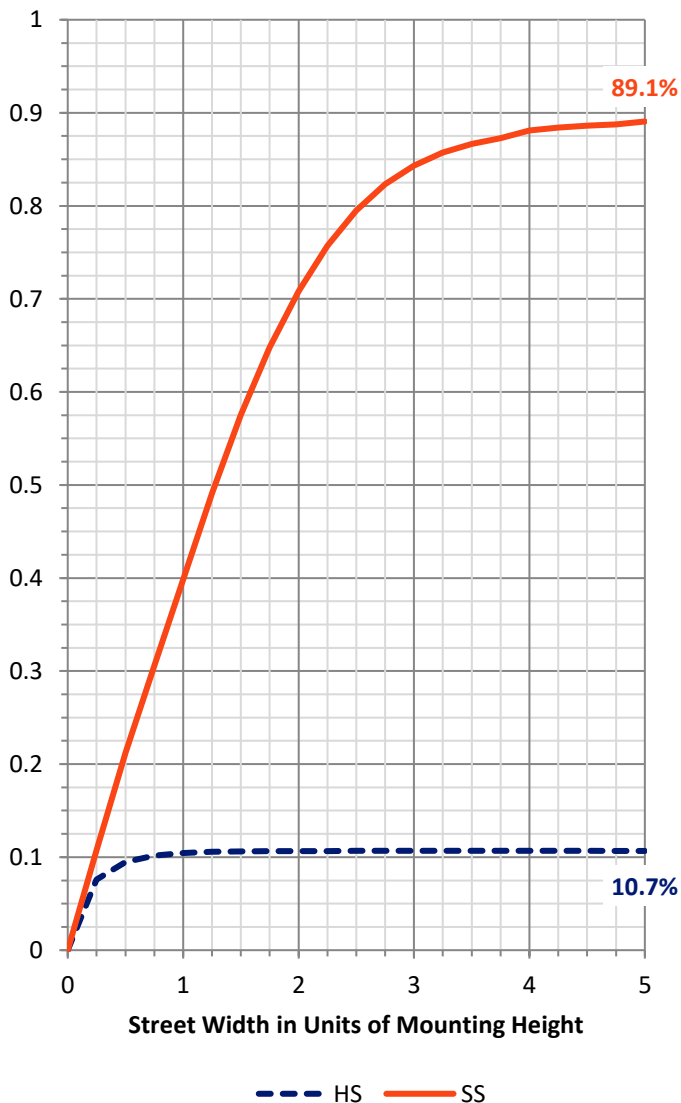
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.1	0.0	531.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4401.7	0.0	4401.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	4932.8	0.0	4932.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.1
10°-20°	159.3	3.2
20°-30°	249.4	5.1
30°-40°	349.3	7.1
40°-50°	575.9	11.7
50°-60°	1035.2	21.0
60°-70°	1500.4	30.4
70°-80°	936.4	19.0
80°-90°	74.2	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°	4932.8	100.0
0°-180°	4932.8	100.0



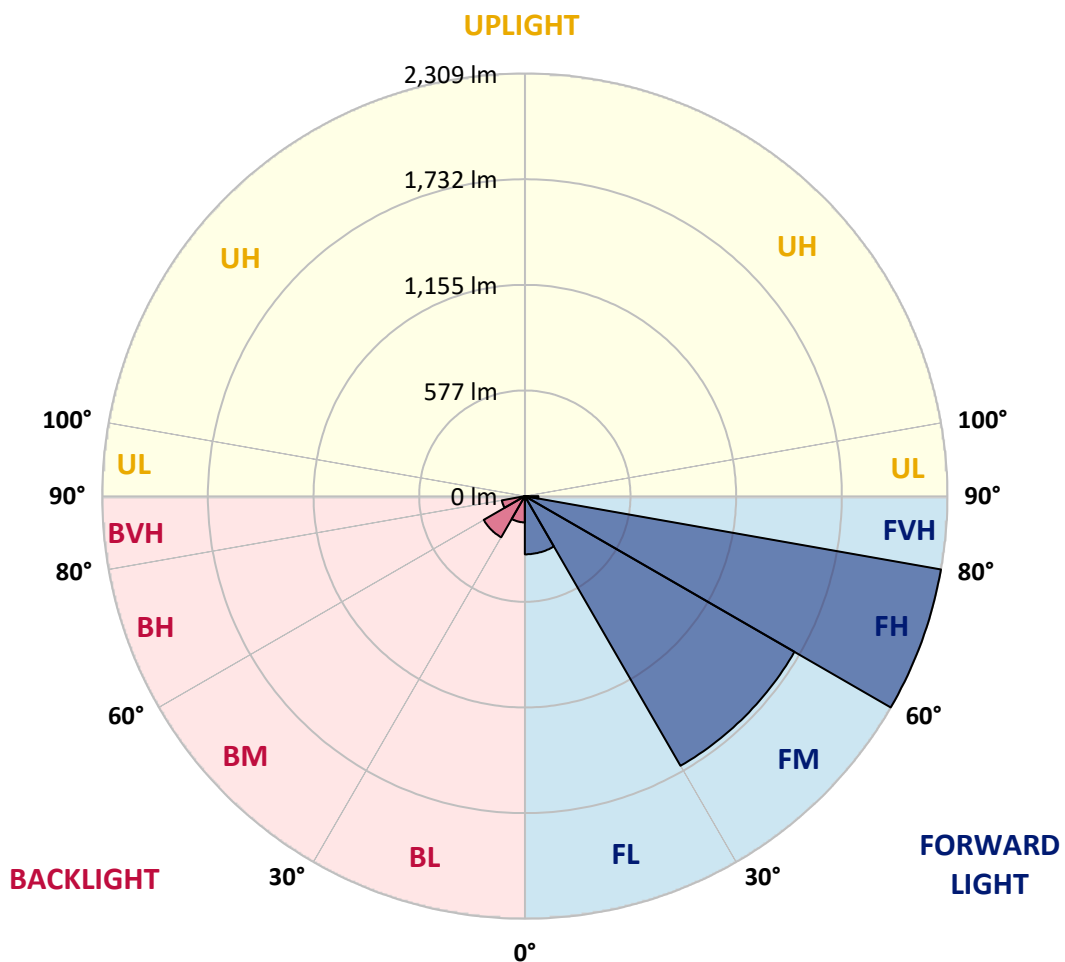
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.9	6.4			
FM (30°-60°)	1700.9	34.5			
FH (60°-80°)	2309.0	46.8			G2/5000
FVH (80°-90°)	73.8	1.5			G1/100
BL (0°-30°)	143.5	2.9	B1/500		
BM (30°-60°)	259.4	5.3	B1/1000		
BH (60°-80°)	127.7	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	590.1	587.6	591.4	590.1	575.0	577.5	576.3	566.2	548.6	538.5	532.2
5°	658.0	664.3	659.3	648.0	639.2	621.6	619.0	602.7	575.0	557.4	538.5
7.5°	728.5	728.5	718.4	700.8	682.0	663.1	660.6	632.9	609.0	578.8	552.4
10°	781.4	775.1	767.5	748.6	727.3	702.1	689.5	669.4	643.0	606.5	572.5
12.5°	827.9	817.8	805.3	777.6	752.4	724.7	727.3	694.5	676.9	644.2	593.9
15°	854.3	845.5	834.2	809.0	770.0	757.4	752.4	732.3	700.8	668.1	620.3
17.5°	860.6	854.3	839.2	806.5	785.1	770.0	768.8	744.9	731.0	703.3	650.5
20°	848.0	836.7	825.4	804.0	783.9	778.8	775.1	775.1	757.4	721.0	669.4
22.5°	826.7	814.1	807.8	795.2	778.8	777.6	780.1	777.6	763.7	739.8	689.5
25°	810.3	804.0	793.9	790.2	780.1	799.0	795.2	791.4	787.6	760.0	721.0
27.5°	815.3	814.1	806.5	791.4	783.9	804.0	815.3	816.6	815.3	787.6	749.9
30°	817.8	811.6	804.0	800.2	802.7	822.9	822.9	850.6	839.2	811.6	778.8
32.5°	846.8	843.0	817.8	809.0	810.3	834.2	835.5	863.1	859.4	840.5	804.0
35°	908.4	883.3	846.8	821.6	821.6	853.1	843.0	883.3	893.3	863.1	821.6
37.5°	1000.3	981.4	916.0	859.4	838.0	860.6	870.7	893.3	923.5	897.1	856.8
40°	1182.7	1179.0	1085.8	963.8	879.5	899.6	903.4	938.6	958.8	922.3	911.0
42.5°	1449.5	1430.6	1343.8	1151.3	955.0	946.2	960.0	982.7	1030.5	1000.3	972.6
45°	1709.9	1701.1	1614.3	1399.1	1092.1	1039.3	1031.7	1072.0	1142.5	1109.8	1088.4
47.5°	1898.7	1881.0	1832.0	1650.8	1293.5	1148.8	1153.8	1194.1	1283.4	1258.2	1264.5
50°	2043.3	2034.5	1983.0	1883.6	1547.6	1321.1	1311.1	1351.3	1472.1	1488.5	1506.1
52.5°	2201.9	2218.2	2149.0	2064.7	1848.3	1552.6	1530.0	1543.8	1699.9	1737.6	1786.7
55°	2354.1	2380.6	2311.4	2300.0	2162.9	1809.3	1805.5	1772.8	1974.1	1979.2	2005.6
57.5°	2453.5	2444.7	2439.7	2501.3	2477.4	2103.7	2084.9	2052.2	2234.6	2201.9	2281.2
60°	2461.1	2486.2	2570.5	2722.8	2765.6	2449.8	2422.1	2332.7	2459.8	2381.8	2532.8
62.5°	2517.7	2537.8	2693.8	2904.0	2959.3	2754.2	2773.1	2546.6	2652.3	2590.7	2812.1
65°	2374.3	2437.2	2750.5	3044.9	3213.5	3062.5	3043.6	2822.2	2849.9	2792.0	3087.7
67.5°	2244.7	2268.6	2595.7	3087.7	3414.8	3372.0	3364.5	3066.3	3053.7	2946.8	3165.7
70°	1824.4	1853.4	2176.7	2868.7	3482.8	3733.1	3715.5	3408.5	3192.1	2862.5	2765.6
72.5°	1045.6	1103.5	1508.6	2209.4	3129.2	3833.8	3850.2	3463.9	3028.5	2407.0	1847.1
75°	342.2	358.6	626.6	1251.9	2340.3	3344.3	3315.4	2976.9	2443.5	1589.1	834.2
77.5°	115.8	118.3	185.0	453.0	1297.2	2259.8	2276.1	2127.7	1501.1	660.6	230.3
80°	59.1	62.9	90.6	169.9	533.5	1230.5	1257.0	1212.9	629.1	195.0	55.4
82.5°	27.7	28.9	52.8	94.4	244.1	483.2	483.2	531.0	222.7	109.5	22.6
85°	10.1	10.1	27.7	54.1	103.2	161.1	162.3	163.6	117.0	81.8	10.1
87.5°	3.8	3.8	13.8	22.6	37.7	49.1	49.1	39.0	59.1	54.1	3.8
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°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	529.7	522.2	515.9	507.1	495.7	489.4	490.7	483.2	483.2	479.4	478.1
5°	529.7	522.2	505.8	490.7	480.6	468.1	461.8	456.7	456.7	454.2	455.5
7.5°	533.5	522.2	499.5	479.4	463.0	450.4	440.4	439.1	436.6	430.3	435.3
10°	556.1	539.8	502.0	474.3	455.5	441.6	424.0	419.0	411.4	400.1	401.4
12.5°	575.0	553.6	519.6	481.9	458.0	435.3	395.1	351.0	332.2	312.0	313.3
15°	602.7	572.5	525.9	492.0	458.0	385.0	312.0	255.4	225.2	210.1	210.1
17.5°	617.8	592.6	543.6	498.3	421.5	313.3	221.4	172.4	167.3	169.9	169.9
20°	649.2	615.3	563.7	503.3	361.1	222.7	162.3	157.3	159.8	164.8	163.6
22.5°	669.4	635.4	578.8	480.6	279.3	159.8	152.2	149.7	152.2	158.5	158.5
25°	685.7	664.3	602.7	425.3	197.5	144.7	142.2	144.7	147.2	149.7	153.5
27.5°	726.0	689.5	619.0	353.6	142.2	134.6	137.1	138.4	138.4	142.2	143.4
30°	752.4	723.5	631.6	273.0	125.8	124.6	127.1	128.3	129.6	133.4	134.6
32.5°	777.6	767.5	615.3	185.0	118.3	115.8	114.5	115.8	120.8	124.6	123.3
35°	814.1	807.8	591.4	128.3	110.7	105.7	103.2	104.4	108.2	112.0	110.7
37.5°	858.1	864.4	533.5	112.0	103.2	96.9	91.9	91.9	93.1	96.9	98.1
40°	909.7	926.1	465.5	104.4	98.1	90.6	85.6	79.3	78.0	76.8	78.0
42.5°	1004.1	1022.9	388.8	99.4	90.6	81.8	74.2	66.7	60.4	56.6	56.6
45°	1136.2	1121.1	288.1	94.4	86.8	74.2	62.9	54.1	45.3	41.5	41.5
47.5°	1318.6	1267.0	197.5	89.3	80.5	65.4	52.8	41.5	34.0	30.2	30.2
50°	1571.5	1401.7	128.3	84.3	76.8	56.6	42.8	30.2	25.2	23.9	25.2
52.5°	1810.6	1538.8	101.9	78.0	69.2	49.1	32.7	25.2	22.6	21.4	21.4
55°	2030.8	1608.0	90.6	71.7	62.9	40.3	27.7	21.4	20.1	18.9	18.9
57.5°	2217.0	1631.9	78.0	62.9	50.3	31.5	22.6	18.9	16.4	15.1	15.1
60°	2378.0	1638.2	60.4	50.3	36.5	23.9	18.9	16.4	13.8	11.3	11.3
62.5°	2506.4	1594.2	42.8	35.2	25.2	18.9	16.4	11.3	7.5	5.0	3.8
65°	2608.3	1506.1	28.9	23.9	16.4	13.8	10.1	5.0	1.3	0.0	0.0
67.5°	2488.8	1306.0	22.6	17.6	11.3	8.8	5.0	1.3	0.0	0.0	0.0
70°	2029.5	1012.9	16.4	11.3	7.5	2.5	1.3	0.0	0.0	0.0	0.0
72.5°	1381.5	653.0	12.6	7.5	3.8	1.3	0.0	0.0	0.0	0.0	0.0
75°	620.3	234.0	8.8	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	151.0	55.4	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.3	13.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	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)