

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: P676757

Luminaire Tested: **CCW-SA-2B-830-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676757
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3959.2 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

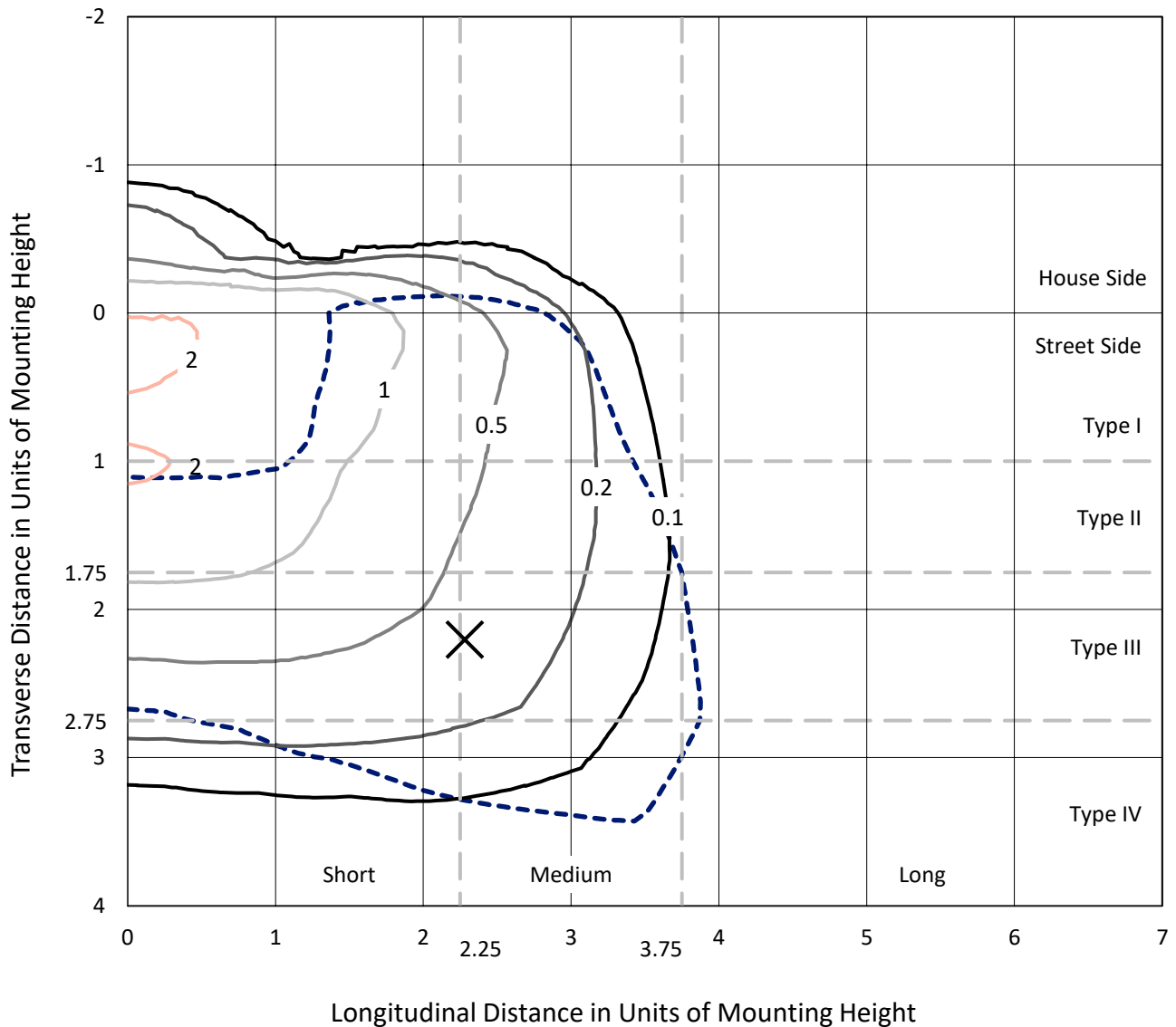
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

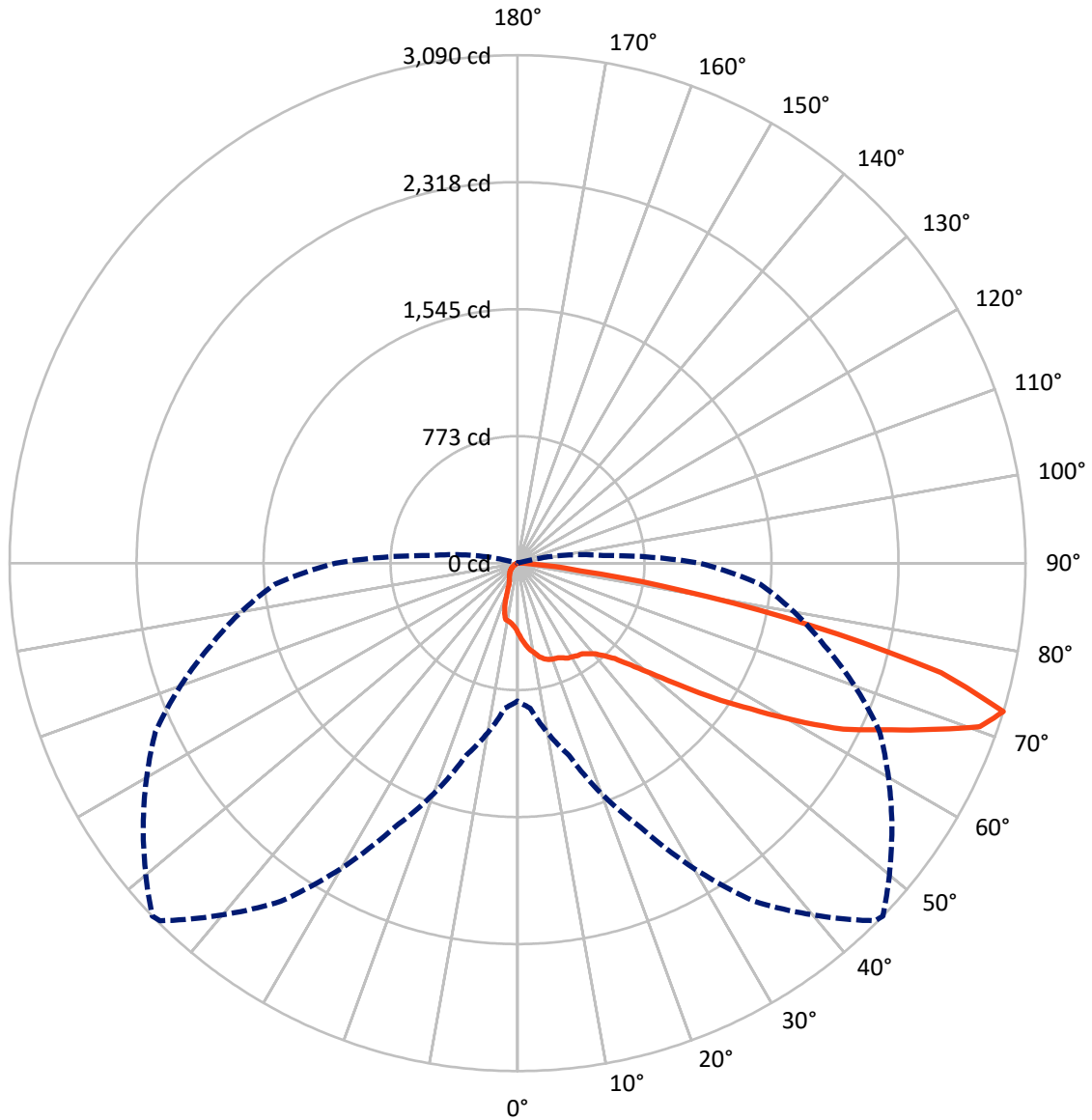
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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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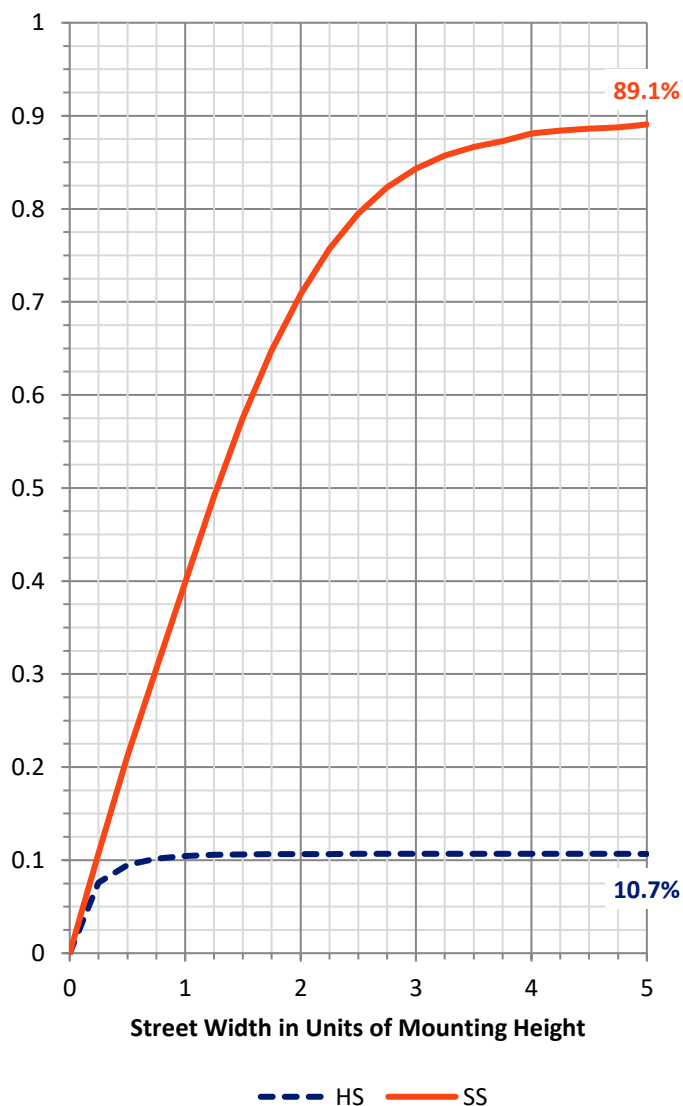
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.2	0.0	426.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3533.0	0.0	3533.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	3959.2	0.0	3959.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	1.1
10°-20°	127.9	3.2
20°-30°	200.2	5.1
30°-40°	280.3	7.1
40°-50°	462.3	11.7
50°-60°	830.9	21.0
60°-70°	1204.2	30.4
70°-80°	751.6	19.0
80°-90°	59.6	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°	3959.2	100.0
0°-180°	3959.2	100.0



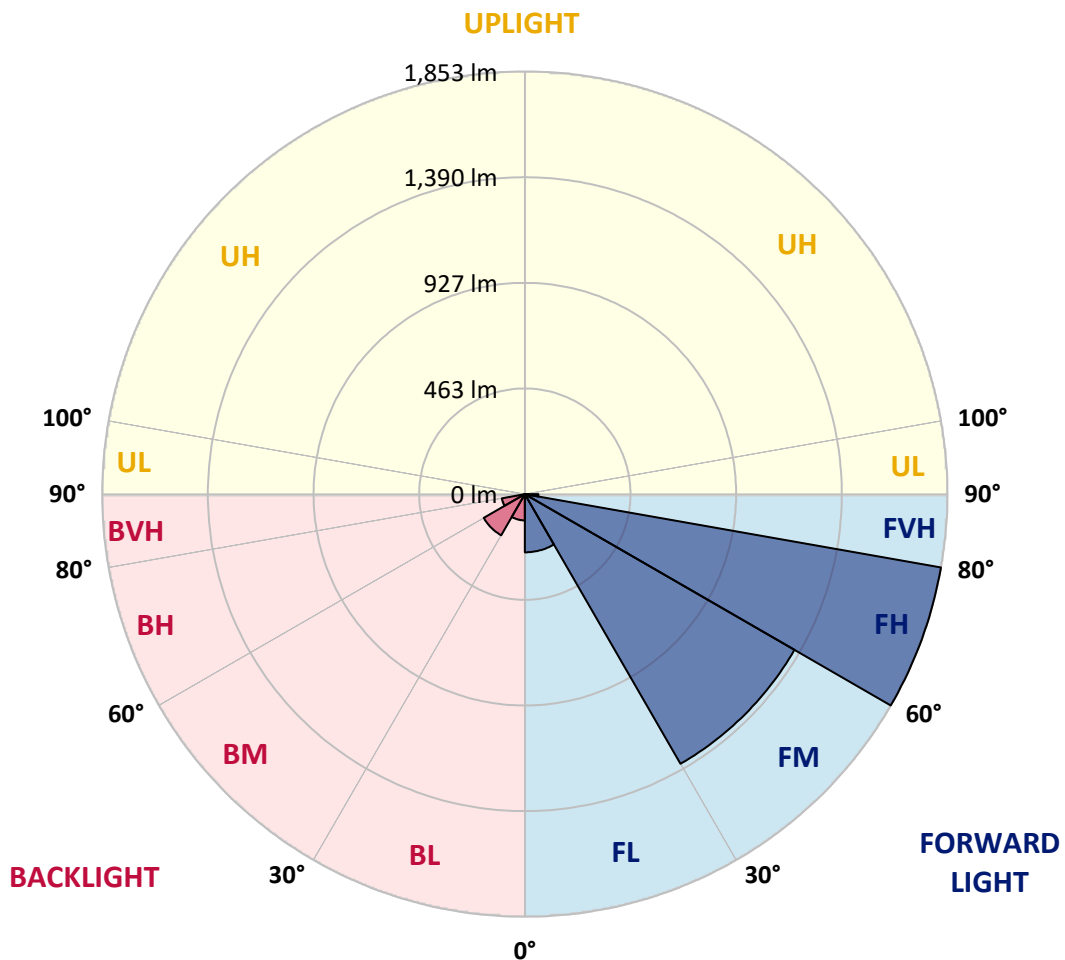
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.2	6.4			
FM (30°-60°)	1365.2	34.5			
FH (60°-80°)	1853.3	46.8			G2/5000
FVH (80°-90°)	59.2	1.5			G1/100
BL (0°-30°)	115.2	2.9	B1/500		
BM (30°-60°)	208.2	5.3	B0/220		
BH (60°-80°)	102.5	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°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1
2.5°	473.6	471.6	474.7	473.6	461.5	463.5	462.5	454.5	440.3	432.2	427.2
5°	528.2	533.2	529.2	520.1	513.0	498.9	496.9	483.7	461.5	447.4	432.2
7.5°	584.7	584.7	576.7	562.5	547.4	532.2	530.2	508.0	488.8	464.6	443.3
10°	627.1	622.1	616.0	600.9	583.7	563.5	553.4	537.3	516.1	486.8	459.5
12.5°	664.5	656.4	646.3	624.1	603.9	581.7	583.7	557.5	543.3	517.1	476.7
15°	685.7	678.7	669.6	649.4	618.1	608.0	603.9	587.8	562.5	536.3	497.9
17.5°	690.8	685.7	673.6	647.3	630.2	618.1	617.0	597.9	586.8	564.5	522.1
20°	680.7	671.6	662.5	645.3	629.2	625.1	622.1	622.1	608.0	578.7	537.3
22.5°	663.5	653.4	648.4	638.3	625.1	624.1	626.1	624.1	613.0	593.8	553.4
25°	650.4	645.3	637.2	634.2	626.1	641.3	638.3	635.2	632.2	610.0	578.7
27.5°	654.4	653.4	647.3	635.2	629.2	645.3	654.4	655.4	654.4	632.2	601.9
30°	656.4	651.4	645.3	642.3	644.3	660.5	660.5	682.7	673.6	651.4	625.1
32.5°	679.7	676.6	656.4	649.4	650.4	669.6	670.6	692.8	689.8	674.6	645.3
35°	729.1	708.9	679.7	659.5	659.5	684.7	676.6	708.9	717.0	692.8	659.5
37.5°	802.9	787.7	735.2	689.8	672.6	690.8	698.8	717.0	741.3	720.1	687.7
40°	949.3	946.3	871.5	773.6	705.9	722.1	725.1	753.4	769.5	740.3	731.2
42.5°	1163.4	1148.3	1078.6	924.1	766.5	759.4	770.6	788.7	827.1	802.9	780.7
45°	1372.5	1365.4	1295.7	1123.0	876.6	834.2	828.1	860.4	917.0	890.7	873.6
47.5°	1523.9	1509.8	1470.4	1325.0	1038.2	922.0	926.1	958.4	1030.1	1009.9	1014.9
50°	1640.1	1633.0	1591.6	1511.8	1242.2	1060.4	1052.3	1084.6	1181.6	1194.7	1208.8
52.5°	1767.3	1780.4	1724.9	1657.2	1483.5	1246.2	1228.0	1239.1	1364.4	1394.7	1434.1
55°	1889.5	1910.7	1855.2	1846.1	1736.0	1452.2	1449.2	1422.9	1584.5	1588.6	1609.8
57.5°	1969.3	1962.2	1958.2	2007.7	1988.5	1688.5	1673.4	1647.1	1793.6	1767.3	1830.9
60°	1975.4	1995.6	2063.2	2185.4	2219.8	1966.3	1944.1	1872.3	1974.3	1911.7	2032.9
62.5°	2020.8	2037.0	2162.2	2330.8	2375.3	2210.7	2225.8	2044.0	2128.9	2079.4	2257.1
65°	1905.7	1956.2	2207.6	2444.0	2579.3	2458.1	2442.9	2265.2	2287.4	2241.0	2478.3
67.5°	1801.7	1820.8	2083.4	2478.3	2740.9	2706.5	2700.5	2461.1	2451.0	2365.2	2540.9
70°	1464.4	1487.6	1747.1	2302.6	2795.4	2996.4	2982.2	2735.8	2562.1	2297.5	2219.8
72.5°	839.2	885.7	1210.9	1773.4	2511.6	3077.2	3090.3	2780.2	2430.8	1931.9	1482.5
75°	274.7	287.8	502.9	1004.8	1878.4	2684.3	2661.1	2389.4	1961.2	1275.5	669.6
77.5°	92.9	94.9	148.5	363.6	1041.2	1813.8	1826.9	1707.7	1204.8	530.2	184.8
80°	47.5	50.5	72.7	136.3	428.2	987.7	1008.9	973.5	504.9	156.5	44.4
82.5°	22.2	23.2	42.4	75.7	195.9	387.8	387.8	426.2	178.8	87.9	18.2
85°	8.1	8.1	22.2	43.4	82.8	129.3	130.3	131.3	93.9	65.6	8.1
87.5°	3.0	3.0	11.1	18.2	30.3	39.4	39.4	31.3	47.5	43.4	3.0
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°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1
2.5°	425.2	419.1	414.1	407.0	397.9	392.8	393.9	387.8	387.8	384.8	383.8
5°	425.2	419.1	406.0	393.9	385.8	375.7	370.6	366.6	366.6	364.6	365.6
7.5°	428.2	419.1	400.9	384.8	371.6	361.5	353.5	352.5	350.4	345.4	349.4
10°	446.4	433.2	402.9	380.7	365.6	354.5	340.3	336.3	330.2	321.1	322.2
12.5°	461.5	444.4	417.1	386.8	367.6	349.4	317.1	281.8	266.6	250.5	251.5
15°	483.7	459.5	422.1	394.9	367.6	309.0	250.5	205.0	180.8	168.7	168.7
17.5°	495.9	475.7	436.3	399.9	338.3	251.5	177.7	138.4	134.3	136.3	136.3
20°	521.1	493.8	452.4	404.0	289.8	178.8	130.3	126.2	128.3	132.3	131.3
22.5°	537.3	510.0	464.6	385.8	224.2	128.3	122.2	120.2	122.2	127.2	127.2
25°	550.4	533.2	483.7	341.3	158.6	116.1	114.1	116.1	118.2	120.2	123.2
27.5°	582.7	553.4	496.9	283.8	114.1	108.1	110.1	111.1	111.1	114.1	115.1
30°	603.9	580.7	507.0	219.1	101.0	100.0	102.0	103.0	104.0	107.0	108.1
32.5°	624.1	616.0	493.8	148.5	94.9	92.9	91.9	92.9	97.0	100.0	99.0
35°	653.4	648.4	474.7	103.0	88.9	84.8	82.8	83.8	86.9	89.9	88.9
37.5°	688.7	693.8	428.2	89.9	82.8	77.8	73.7	73.7	74.7	77.8	78.8
40°	730.2	743.3	373.7	83.8	78.8	72.7	68.7	63.6	62.6	61.6	62.6
42.5°	805.9	821.0	312.1	79.8	72.7	65.6	59.6	53.5	48.5	45.4	45.4
45°	911.9	899.8	231.3	75.7	69.7	59.6	50.5	43.4	36.4	33.3	33.3
47.5°	1058.4	1017.0	158.6	71.7	64.6	52.5	42.4	33.3	27.3	24.2	24.2
50°	1261.4	1125.0	103.0	67.7	61.6	45.4	34.3	24.2	20.2	19.2	20.2
52.5°	1453.2	1235.1	81.8	62.6	55.5	39.4	26.3	20.2	18.2	17.2	17.2
55°	1630.0	1290.6	72.7	57.6	50.5	32.3	22.2	17.2	16.2	15.1	15.1
57.5°	1779.4	1309.8	62.6	50.5	40.4	25.2	18.2	15.1	13.1	12.1	12.1
60°	1908.7	1314.9	48.5	40.4	29.3	19.2	15.1	13.1	11.1	9.1	9.1
62.5°	2011.7	1279.5	34.3	28.3	20.2	15.1	13.1	9.1	6.1	4.0	3.0
65°	2093.5	1208.8	23.2	19.2	13.1	11.1	8.1	4.0	1.0	0.0	0.0
67.5°	1997.6	1048.3	18.2	14.1	9.1	7.1	4.0	1.0	0.0	0.0	0.0
70°	1629.0	813.0	13.1	9.1	6.1	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1108.9	524.1	10.1	6.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	497.9	187.8	7.1	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	121.2	44.4	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.3	11.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)