

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: P676466

Luminaire Tested: **CCW-SA-1E-830-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676466
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

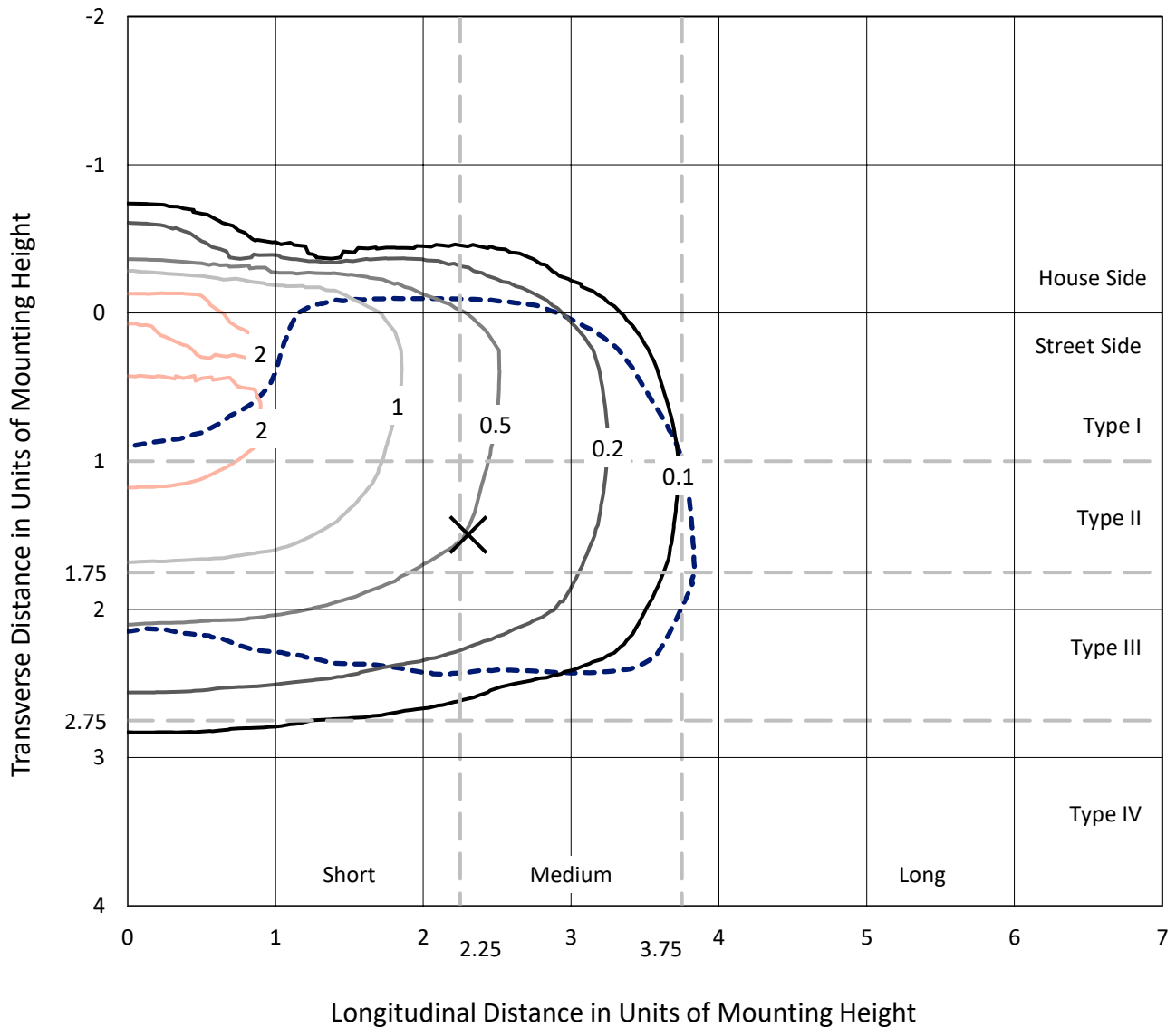
Lumens per Lamp: N/A
Luminaire Lumens: 3913.8 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

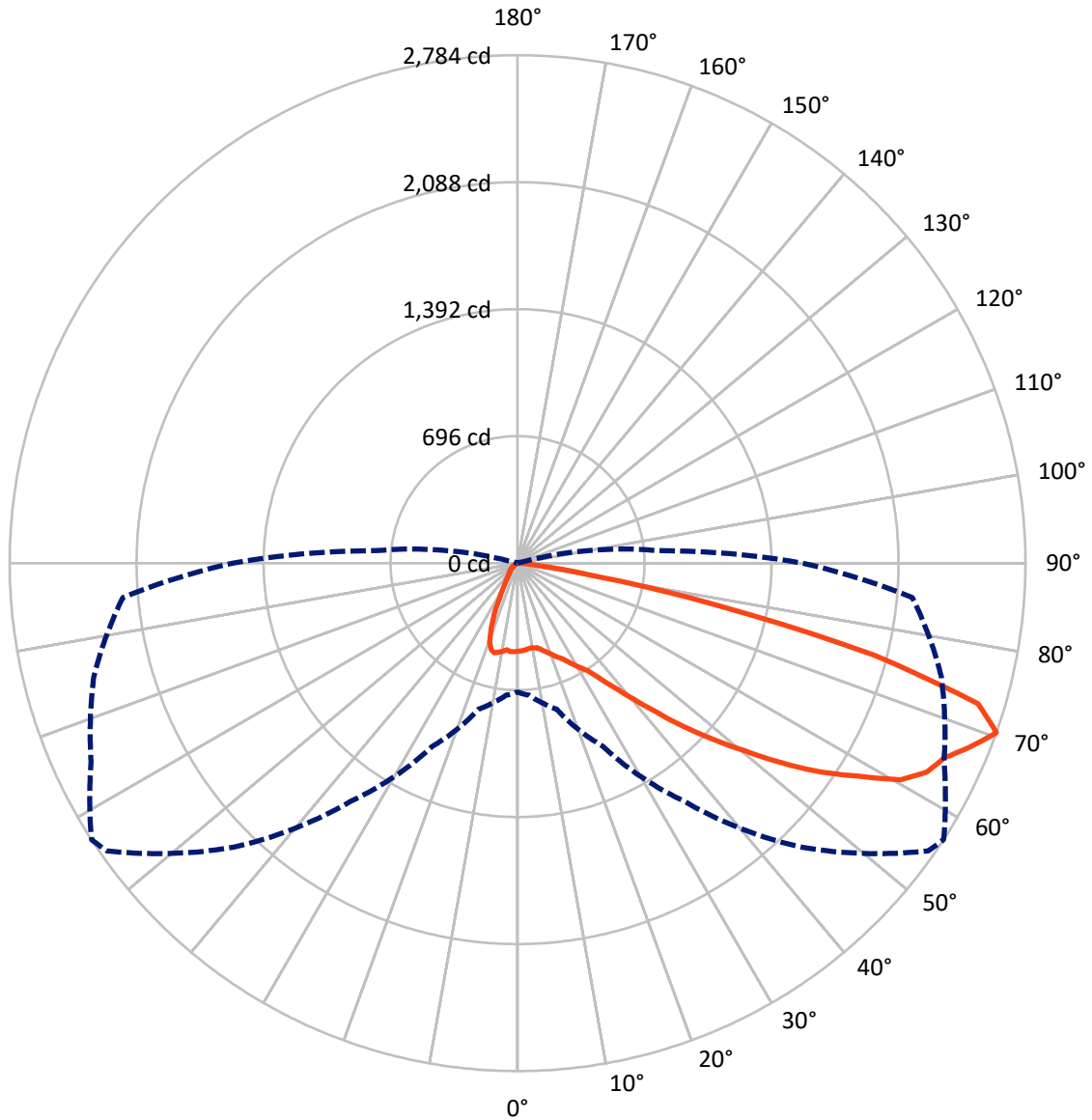
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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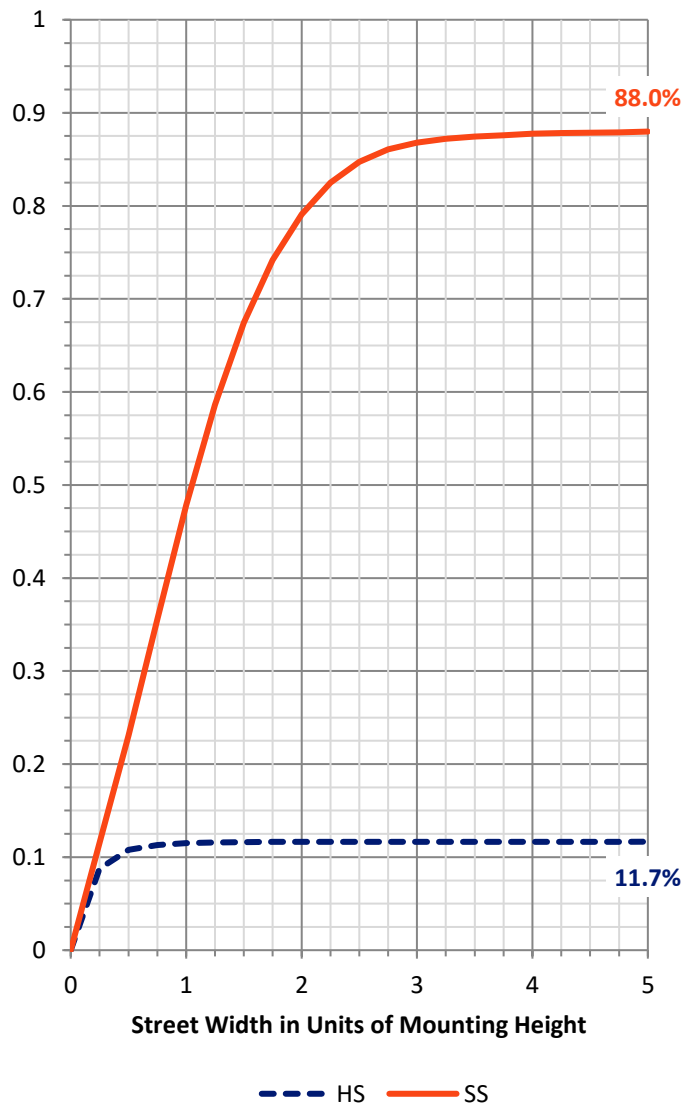
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.3	0.0	461.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3452.5	0.0	3452.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	3913.8	0.0	3913.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.2
10°-20°	126.2	3.2
20°-30°	212.5	5.4
30°-40°	363.7	9.3
40°-50°	610.8	15.6
50°-60°	937.5	24.0
60°-70°	1082.4	27.7
70°-80°	511.3	13.1
80°-90°	24.3	0.6
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°	3913.8	100.0
0°-180°	3913.8	100.0

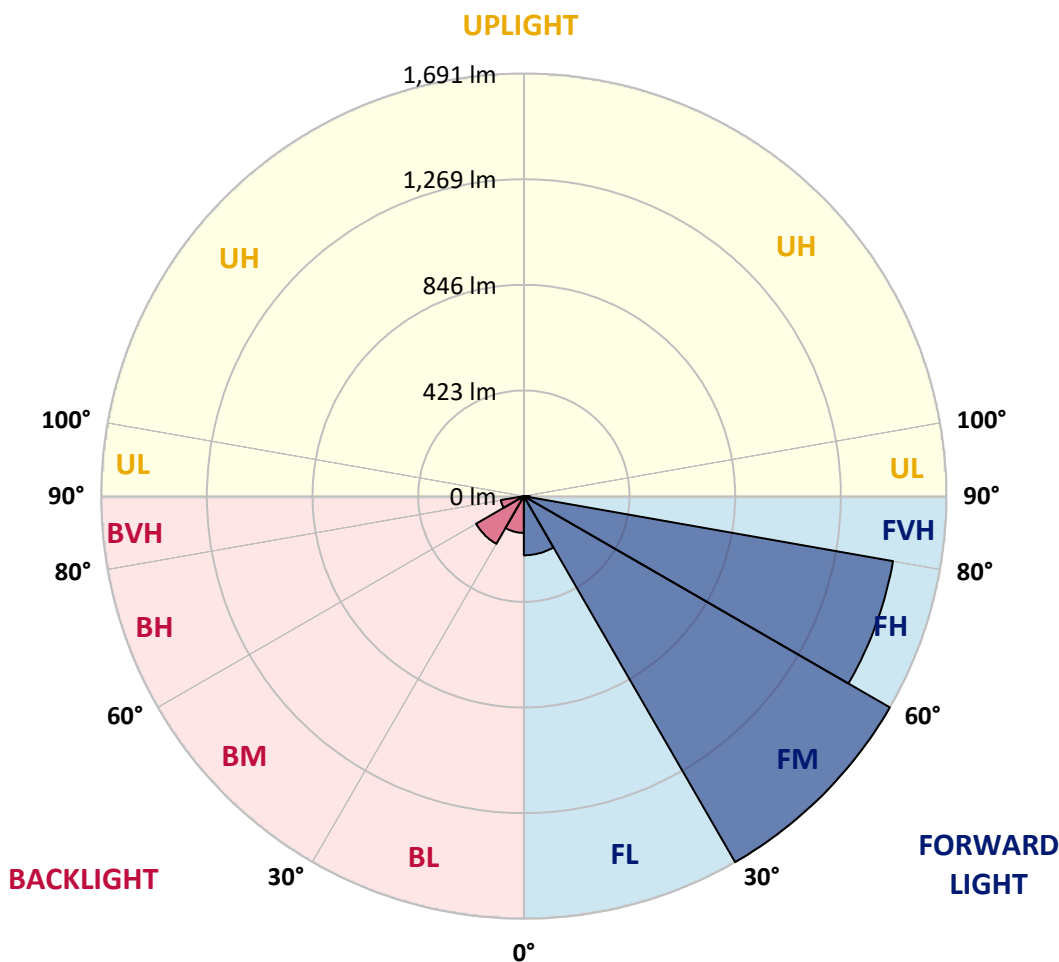


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.8	6.0			
FM (30°-60°)	1691.5	43.2			
FH (60°-80°)	1500.4	38.3			G1/1800
FVH (80°-90°)	23.8	0.6			G1/100
BL (0°-30°)	147.1	3.8	B1/500		
BM (30°-60°)	220.5	5.6	B1/1000		
BH (60°-80°)	93.3	2.4	B0/110		G0/110
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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	475.9	472.9	475.9	479.9	475.9	478.9	477.9	480.9	476.9	476.9	479.9
5°	444.9	449.9	451.9	456.9	461.9	470.9	476.9	476.9	482.9	485.9	489.9
7.5°	433.9	425.9	433.9	437.9	442.9	457.9	466.9	470.9	478.9	489.9	495.9
10°	417.9	423.9	423.9	436.9	443.9	452.9	468.9	471.9	489.9	500.9	506.9
12.5°	416.9	416.9	421.9	430.9	444.9	461.9	481.9	475.9	494.9	514.9	524.9
15°	419.9	426.9	426.9	438.9	449.9	473.9	490.9	491.9	518.9	538.9	547.9
17.5°	432.9	429.9	433.9	440.9	457.9	480.9	508.9	511.9	542.9	569.9	582.9
20°	459.9	464.9	458.9	454.9	461.9	491.9	527.9	533.9	568.9	594.9	607.9
22.5°	560.9	556.9	532.9	504.9	492.9	506.9	545.9	559.9	600.9	631.9	642.9
25°	674.9	667.9	639.9	597.9	542.9	536.9	581.9	581.9	640.9	674.9	671.9
27.5°	782.9	780.9	747.9	703.9	625.9	582.9	610.9	621.9	685.9	713.9	700.9
30°	892.8	894.8	864.8	811.8	729.9	656.9	651.9	660.9	719.9	763.9	736.9
32.5°	1020.8	1002.8	981.8	908.8	833.8	751.9	704.9	700.9	757.9	797.9	761.9
35°	1134.8	1123.8	1100.8	1034.8	948.8	850.8	784.9	774.9	805.8	858.8	819.8
37.5°	1234.8	1223.8	1193.8	1149.8	1082.8	973.8	880.8	865.8	878.8	934.8	887.8
40°	1320.8	1323.8	1315.8	1272.8	1210.8	1111.8	1004.8	980.8	969.8	1019.8	966.8
42.5°	1382.7	1411.7	1413.7	1360.7	1310.8	1256.8	1136.8	1117.8	1091.8	1133.8	1096.8
45°	1512.7	1496.7	1506.7	1487.7	1432.7	1424.7	1288.8	1277.8	1241.8	1255.8	1216.8
47.5°	1614.7	1611.7	1630.7	1599.7	1584.7	1585.7	1461.7	1442.7	1391.7	1417.7	1373.7
50°	1673.7	1657.7	1726.7	1750.7	1747.7	1759.7	1636.7	1620.7	1571.7	1609.7	1515.7
52.5°	1687.7	1716.7	1781.7	1868.7	1905.6	1930.6	1827.7	1821.7	1768.7	1792.7	1662.7
55°	1722.7	1750.7	1788.7	1931.6	2068.6	2074.6	2015.6	2021.6	1974.6	1968.6	1802.7
57.5°	1721.7	1715.7	1820.7	1986.6	2176.6	2262.6	2230.6	2201.6	2150.6	2091.6	1892.6
60°	1658.7	1655.7	1764.7	1993.6	2235.6	2432.5	2445.5	2411.5	2283.6	2196.6	1998.6
62.5°	1533.7	1545.7	1655.7	1933.6	2291.6	2493.5	2541.5	2518.5	2359.6	2266.6	2123.6
65°	1390.7	1365.7	1493.7	1783.7	2165.6	2475.5	2579.5	2571.5	2449.5	2342.6	2238.6
67.5°	1115.8	1126.8	1224.8	1534.7	1950.6	2409.5	2668.5	2680.5	2521.5	2409.5	2273.6
70°	706.9	726.9	828.8	1108.8	1592.7	2201.6	2748.5	2783.5	2578.5	2403.6	2171.6
72.5°	206.0	214.0	352.9	552.9	1014.8	1765.7	2620.5	2638.5	2467.5	2181.6	1679.7
75°	68.0	72.0	104.0	180.0	397.9	912.8	1935.6	2020.6	1963.6	1581.7	960.8
77.5°	45.0	47.0	57.0	86.0	151.0	285.9	1037.8	1128.8	1106.8	740.9	309.9
80°	33.0	34.0	42.0	58.0	92.0	103.0	382.9	442.9	427.9	170.0	62.0
82.5°	21.0	21.0	31.0	41.0	58.0	51.0	111.0	123.0	120.0	65.0	24.0
85°	14.0	15.0	23.0	32.0	32.0	24.0	32.0	37.0	40.0	35.0	11.0
87.5°	4.0	5.0	13.0	22.0	13.0	12.0	11.0	12.0	14.0	19.0	6.0
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°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	482.9	486.9	485.9	487.9	484.9	481.9	484.9	484.9	484.9	481.9	479.9
5°	486.9	484.9	486.9	482.9	486.9	482.9	480.9	474.9	473.9	473.9	477.9
7.5°	492.9	494.9	485.9	485.9	476.9	478.9	473.9	474.9	472.9	469.9	467.9
10°	501.9	509.9	500.9	497.9	487.9	479.9	467.9	461.9	461.9	457.9	461.9
12.5°	526.9	523.9	518.9	508.9	496.9	480.9	451.9	422.9	398.9	380.9	389.9
15°	546.9	545.9	538.9	519.9	503.9	454.9	381.9	306.9	267.0	249.0	246.0
17.5°	577.9	574.9	562.9	537.9	484.9	376.9	262.0	199.0	160.0	151.0	148.0
20°	606.9	605.9	579.9	547.9	436.9	274.9	171.0	131.0	120.0	121.0	119.0
22.5°	637.9	632.9	601.9	535.9	347.9	183.0	122.0	117.0	113.0	112.0	114.0
25°	672.9	654.9	623.9	508.9	256.0	126.0	115.0	111.0	107.0	106.0	106.0
27.5°	686.9	674.9	633.9	443.9	162.0	110.0	108.0	103.0	98.0	95.0	94.0
30°	718.9	698.9	643.9	348.9	115.0	101.0	98.0	92.0	85.0	80.0	80.0
32.5°	750.9	726.9	644.9	244.0	96.0	91.0	86.0	78.0	69.0	64.0	65.0
35°	790.9	757.9	633.9	158.0	86.0	80.0	70.0	61.0	53.0	49.0	49.0
37.5°	858.8	827.8	588.9	104.0	78.0	68.0	58.0	48.0	41.0	38.0	38.0
40°	944.8	904.8	526.9	82.0	69.0	58.0	46.0	37.0	33.0	30.0	30.0
42.5°	1047.8	997.8	434.9	73.0	61.0	48.0	36.0	29.0	25.0	25.0	24.0
45°	1150.8	1068.8	340.9	67.0	54.0	40.0	28.0	23.0	21.0	20.0	20.0
47.5°	1297.8	1154.8	244.0	61.0	47.0	31.0	23.0	19.0	17.0	16.0	17.0
50°	1438.7	1235.8	173.0	55.0	39.0	25.0	19.0	17.0	15.0	14.0	14.0
52.5°	1562.7	1291.8	121.0	48.0	33.0	21.0	17.0	15.0	14.0	13.0	13.0
55°	1630.7	1272.8	83.0	41.0	27.0	18.0	15.0	13.0	12.0	11.0	11.0
57.5°	1700.7	1219.8	63.0	34.0	22.0	17.0	14.0	12.0	11.0	10.0	10.0
60°	1759.7	1180.8	49.0	27.0	18.0	14.0	12.0	10.0	9.0	8.0	7.0
62.5°	1762.7	1102.8	36.0	20.0	14.0	12.0	10.0	8.0	5.0	4.0	3.0
65°	1774.7	1020.8	26.0	15.0	10.0	9.0	7.0	4.0	2.0	0.0	0.0
67.5°	1732.7	923.8	21.0	11.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0
70°	1561.7	779.9	16.0	8.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	1117.8	506.9	11.0	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	595.9	216.0	8.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	187.0	55.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.0	15.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	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)