

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: P676744

Luminaire Tested: **CCW-SA-1F-827-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676744
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

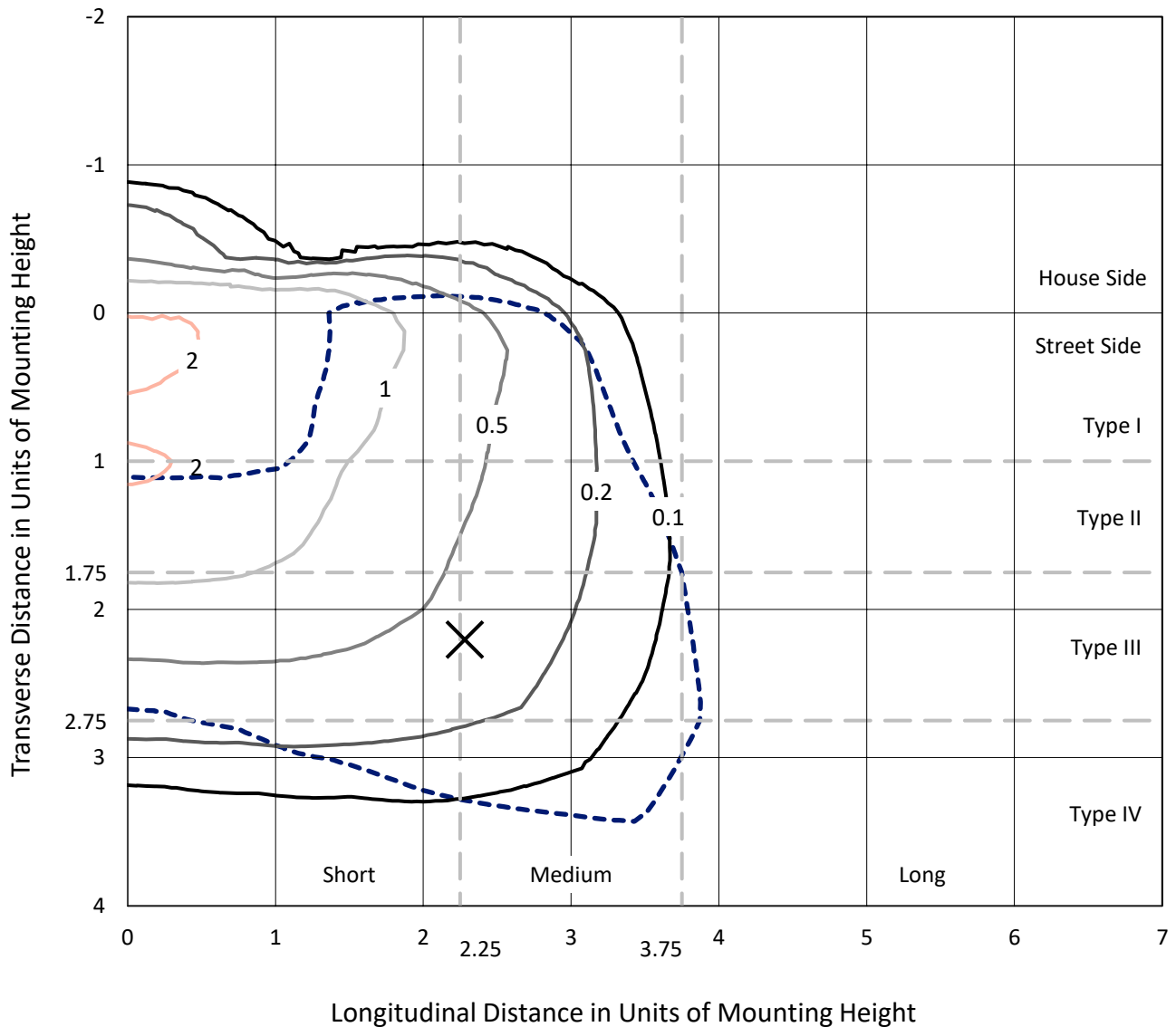
Lumens per Lamp: N/A
Luminaire Lumens: 3976.5 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

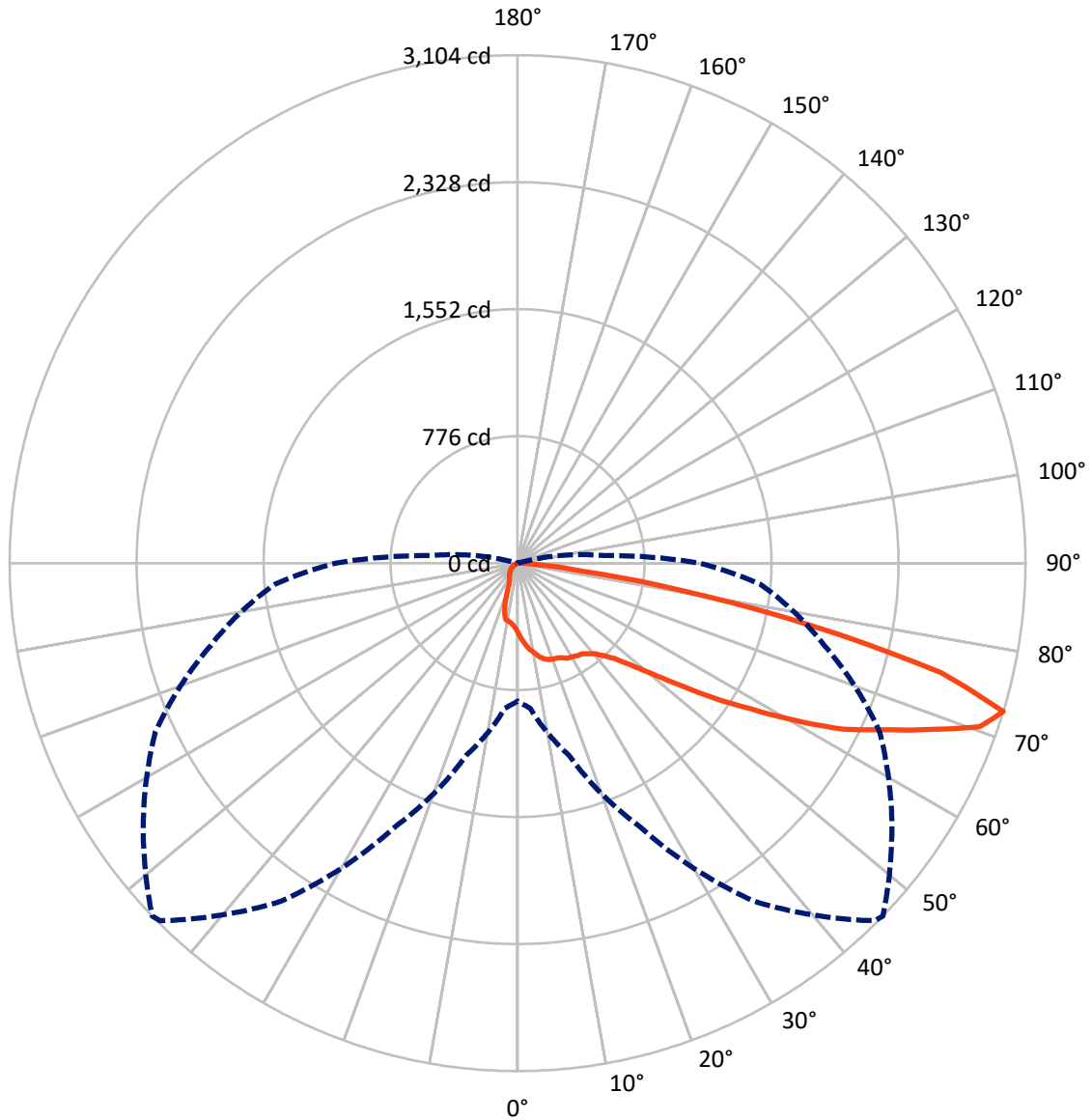
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type 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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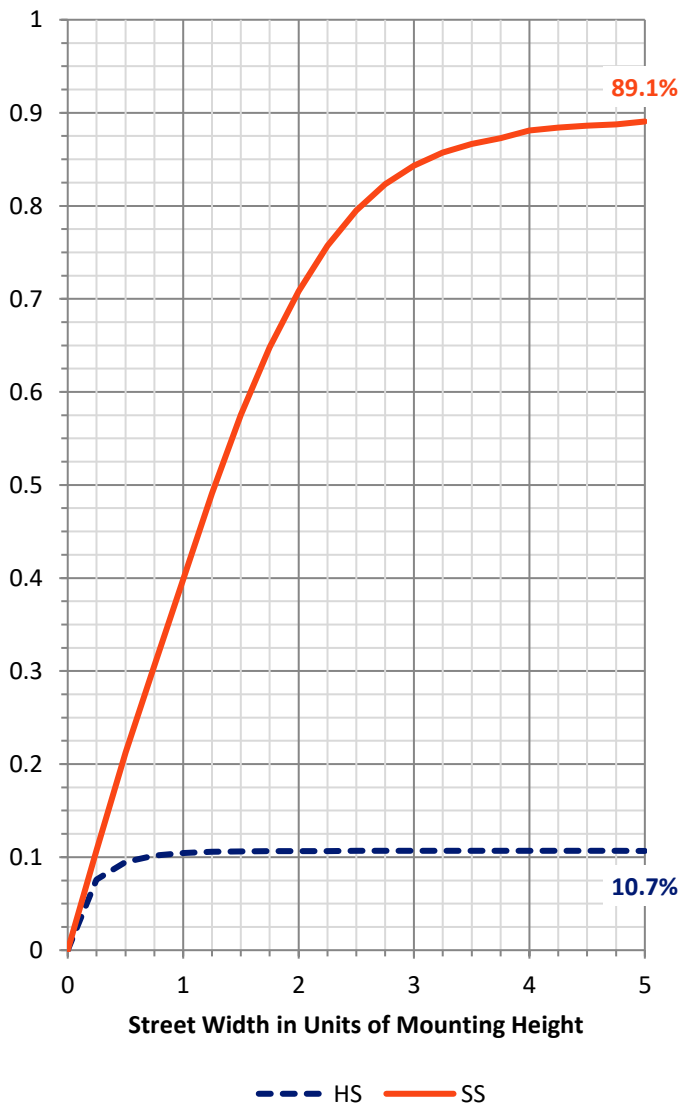
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.1	0.0	428.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3548.4	0.0	3548.4
	% Fixture	89.2	0.0	89.2
Total	Lumens	3976.5	0.0	3976.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	1.1
10°-20°	128.4	3.2
20°-30°	201.0	5.1
30°-40°	281.5	7.1
40°-50°	464.3	11.7
50°-60°	834.5	21.0
60°-70°	1209.5	30.4
70°-80°	754.8	19.0
80°-90°	59.8	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°	3976.5	100.0
0°-180°	3976.5	100.0



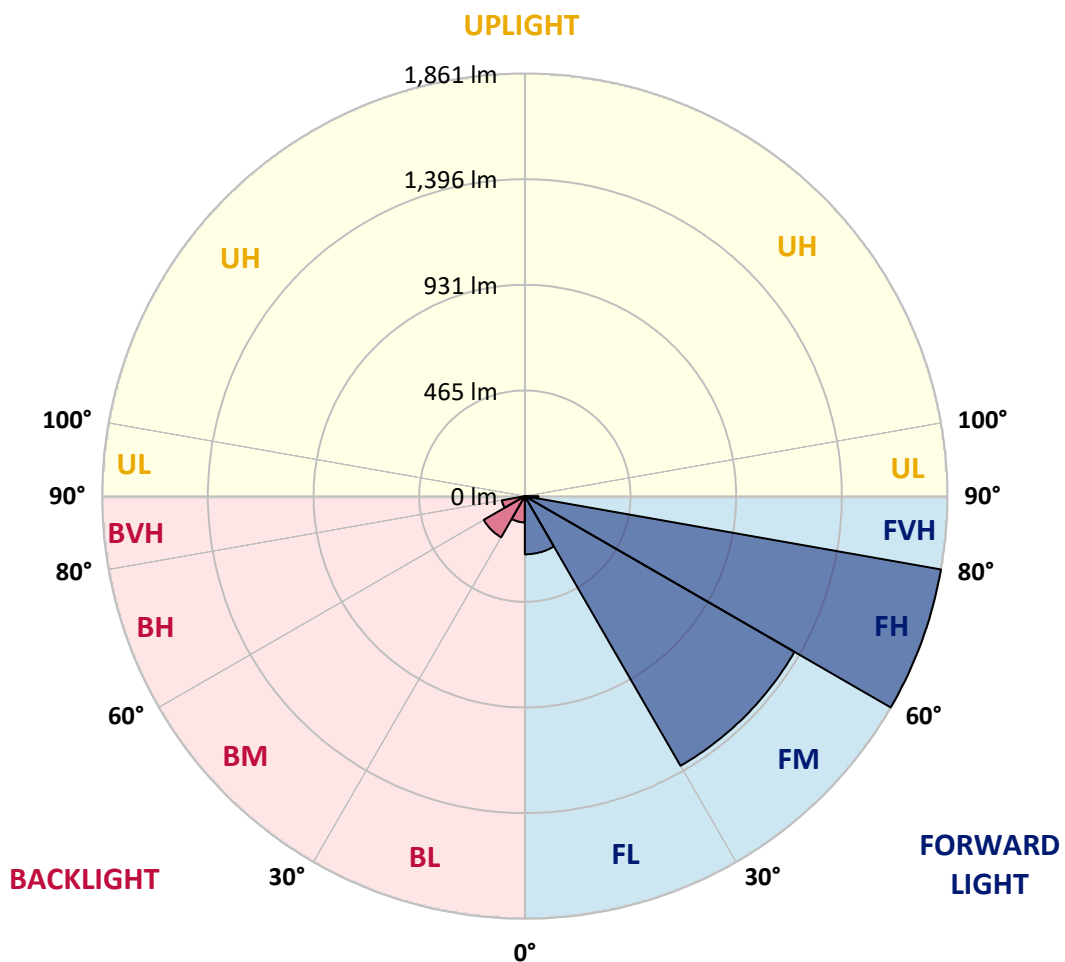
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.3	6.4			
FM (30°-60°)	1371.2	34.5			
FH (60°-80°)	1861.4	46.8			G2/5000
FVH (80°-90°)	59.5	1.5			G1/100
BL (0°-30°)	115.7	2.9	B1/500		
BM (30°-60°)	209.1	5.3	B0/220		
BH (60°-80°)	102.9	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°	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0
2.5°	475.7	473.7	476.7	475.7	463.5	465.6	464.5	456.4	442.2	434.1	429.0
5°	530.5	535.5	531.5	522.4	515.3	501.1	499.0	485.8	463.5	449.3	434.1
7.5°	587.3	587.3	579.2	565.0	549.7	534.5	532.5	510.2	490.9	466.6	445.3
10°	629.9	624.8	618.7	603.5	586.3	566.0	555.8	539.6	518.3	488.9	461.5
12.5°	667.4	659.3	649.1	626.8	606.5	584.2	586.3	559.9	545.7	519.3	478.7
15°	688.7	681.6	672.5	652.2	620.7	610.6	606.5	590.3	565.0	538.6	500.0
17.5°	693.8	688.7	676.5	650.2	632.9	620.7	619.7	600.5	589.3	567.0	524.4
20°	683.6	674.5	665.4	648.1	631.9	627.8	624.8	624.8	610.6	581.2	539.6
22.5°	666.4	656.2	651.2	641.0	627.8	626.8	628.9	626.8	615.7	596.4	555.8
25°	653.2	648.1	640.0	637.0	628.9	644.1	641.0	638.0	634.9	612.6	581.2
27.5°	657.3	656.2	650.2	638.0	631.9	648.1	657.3	658.3	657.3	634.9	604.5
30°	659.3	654.2	648.1	645.1	647.1	663.3	663.3	685.7	676.5	654.2	627.8
32.5°	682.6	679.6	659.3	652.2	653.2	672.5	673.5	695.8	692.8	677.5	648.1
35°	732.3	712.0	682.6	662.3	662.3	687.7	679.6	712.0	720.1	695.8	662.3
37.5°	806.4	791.1	738.4	692.8	675.5	693.8	701.9	720.1	744.5	723.2	690.7
40°	953.4	950.4	875.3	776.9	709.0	725.2	728.3	756.7	772.9	743.5	734.3
42.5°	1168.5	1153.2	1083.3	928.1	769.8	762.7	773.9	792.2	830.7	806.4	784.0
45°	1378.4	1371.3	1301.3	1127.9	880.4	837.8	831.7	864.2	921.0	894.6	877.4
47.5°	1530.6	1516.4	1476.8	1330.7	1042.7	926.0	930.1	962.6	1034.6	1014.3	1019.4
50°	1647.2	1640.1	1598.5	1518.4	1247.6	1065.0	1056.9	1089.3	1186.7	1199.9	1214.1
52.5°	1775.0	1788.2	1732.4	1664.5	1490.0	1251.6	1233.4	1244.5	1370.3	1400.7	1440.3
55°	1897.7	1919.0	1863.3	1854.1	1743.6	1458.5	1455.5	1429.1	1591.4	1595.5	1616.8
57.5°	1977.9	1970.8	1966.7	2016.4	1997.1	1695.9	1680.7	1654.3	1801.4	1775.0	1838.9
60°	1984.0	2004.2	2072.2	2194.9	2229.4	1974.8	1952.5	1880.5	1982.9	1920.1	2041.8
62.5°	2029.6	2045.8	2171.6	2341.0	2385.6	2220.3	2235.5	2052.9	2138.1	2088.4	2266.9
65°	1914.0	1964.7	2217.2	2454.6	2590.5	2468.8	2453.6	2275.1	2297.4	2250.7	2489.1
67.5°	1809.5	1828.8	2092.5	2489.1	2752.8	2718.3	2712.2	2471.8	2461.7	2375.5	2552.0
70°	1470.7	1494.0	1754.7	2312.6	2807.6	3009.4	2995.2	2747.7	2573.3	2307.5	2229.4
72.5°	842.9	889.5	1216.1	1781.1	2522.5	3090.5	3103.7	2792.3	2441.4	1940.3	1489.0
75°	275.9	289.1	505.1	1009.2	1886.6	2696.0	2672.7	2399.8	1969.8	1281.0	672.5
77.5°	93.3	95.3	149.1	365.1	1045.7	1821.7	1834.9	1715.2	1210.0	532.5	185.6
80°	47.7	50.7	73.0	136.9	430.1	992.0	1013.3	977.8	507.1	157.2	44.6
82.5°	22.3	23.3	42.6	76.1	196.8	389.5	389.5	428.0	179.5	88.2	18.3
85°	8.1	8.1	22.3	43.6	83.2	129.8	130.8	131.9	94.3	65.9	8.1
87.5°	3.0	3.0	11.2	18.3	30.4	39.6	39.6	31.4	47.7	43.6	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°	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0
2.5°	427.0	420.9	415.9	408.8	399.6	394.6	395.6	389.5	389.5	386.4	385.4
5°	427.0	420.9	407.7	395.6	387.5	377.3	372.2	368.2	368.2	366.2	367.2
7.5°	430.1	420.9	402.7	386.4	373.3	363.1	355.0	354.0	352.0	346.9	350.9
10°	448.3	435.1	404.7	382.4	367.2	356.0	341.8	337.8	331.7	322.5	323.6
12.5°	463.5	446.3	418.9	388.5	369.2	350.9	318.5	283.0	267.8	251.5	252.6
15°	485.8	461.5	424.0	396.6	369.2	310.4	251.5	205.9	181.6	169.4	169.4
17.5°	498.0	477.7	438.2	401.7	339.8	252.6	178.5	139.0	134.9	136.9	136.9
20°	523.4	496.0	454.4	405.7	291.1	179.5	130.8	126.8	128.8	132.9	131.9
22.5°	539.6	512.2	466.6	387.5	225.2	128.8	122.7	120.7	122.7	127.8	127.8
25°	552.8	535.5	485.8	342.8	159.2	116.6	114.6	116.6	118.7	120.7	123.7
27.5°	585.2	555.8	499.0	285.0	114.6	108.5	110.6	111.6	111.6	114.6	115.6
30°	606.5	583.2	509.2	220.1	101.4	100.4	102.4	103.5	104.5	107.5	108.5
32.5°	626.8	618.7	496.0	149.1	95.3	93.3	92.3	93.3	97.4	100.4	99.4
35°	656.2	651.2	476.7	103.5	89.3	85.2	83.2	84.2	87.2	90.3	89.3
37.5°	691.7	696.8	430.1	90.3	83.2	78.1	74.0	74.0	75.1	78.1	79.1
40°	733.3	746.5	375.3	84.2	79.1	73.0	69.0	63.9	62.9	61.9	62.9
42.5°	809.4	824.6	313.4	80.1	73.0	65.9	59.8	53.8	48.7	45.6	45.6
45°	915.9	903.7	232.3	76.1	70.0	59.8	50.7	43.6	36.5	33.5	33.5
47.5°	1063.0	1021.4	159.2	72.0	64.9	52.7	42.6	33.5	27.4	24.3	24.3
50°	1266.8	1129.9	103.5	68.0	61.9	45.6	34.5	24.3	20.3	19.3	20.3
52.5°	1459.6	1240.5	82.2	62.9	55.8	39.6	26.4	20.3	18.3	17.2	17.2
55°	1637.1	1296.3	73.0	57.8	50.7	32.5	22.3	17.2	16.2	15.2	15.2
57.5°	1787.2	1315.5	62.9	50.7	40.6	25.4	18.3	15.2	13.2	12.2	12.2
60°	1917.0	1320.6	48.7	40.6	29.4	19.3	15.2	13.2	11.2	9.1	9.1
62.5°	2020.5	1285.1	34.5	28.4	20.3	15.2	13.2	9.1	6.1	4.1	3.0
65°	2102.6	1214.1	23.3	19.3	13.2	11.2	8.1	4.1	1.0	0.0	0.0
67.5°	2006.3	1052.8	18.3	14.2	9.1	7.1	4.1	1.0	0.0	0.0	0.0
70°	1636.1	816.5	13.2	9.1	6.1	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1113.7	526.4	10.1	6.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	500.0	188.7	7.1	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	121.7	44.6	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.5	11.2	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	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)