

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: P676775

Luminaire Tested: **CCW-SA-1D-840-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676775
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-840-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

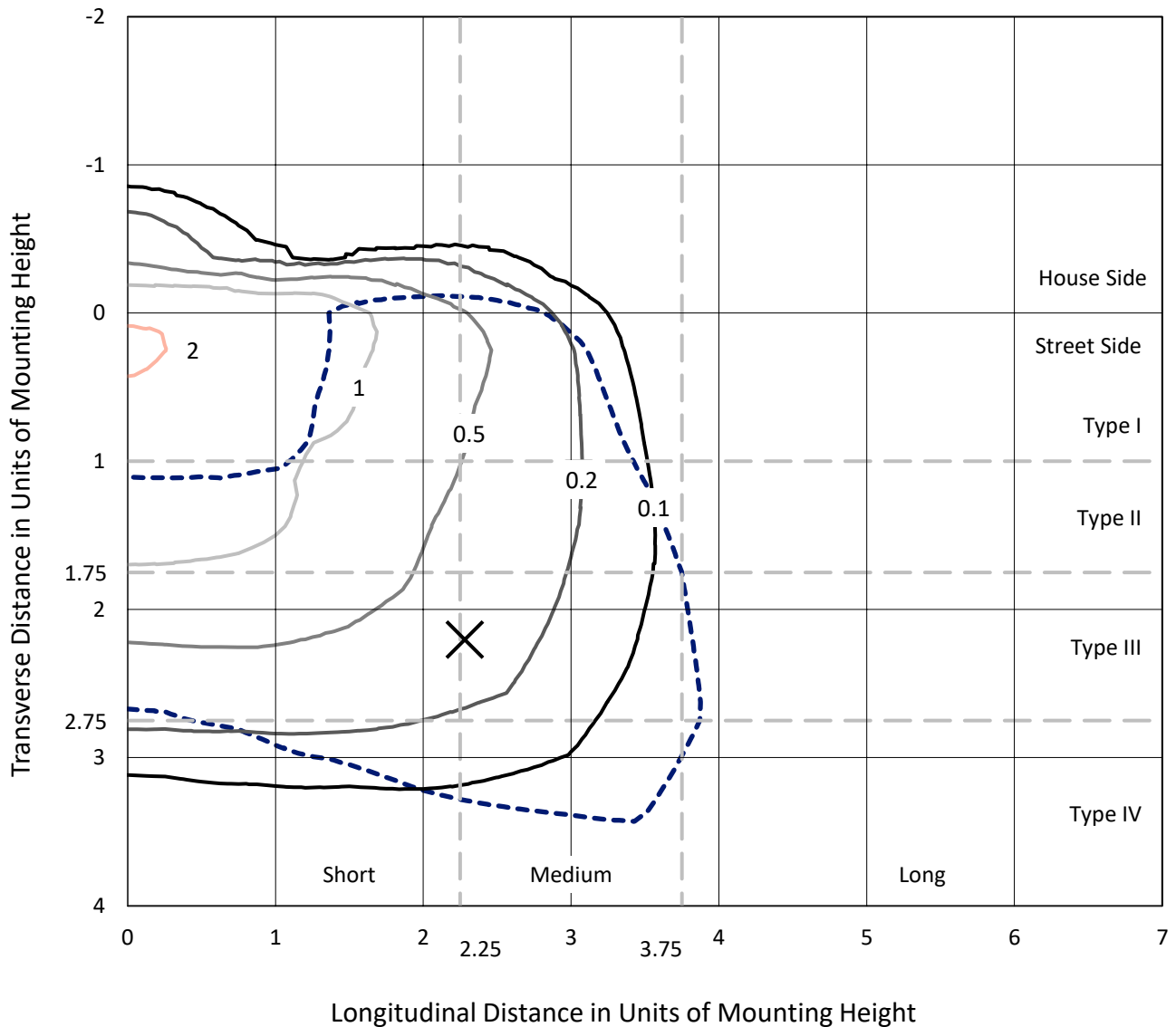
Lumens per Lamp: N/A
Luminaire Lumens: 3430.6 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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

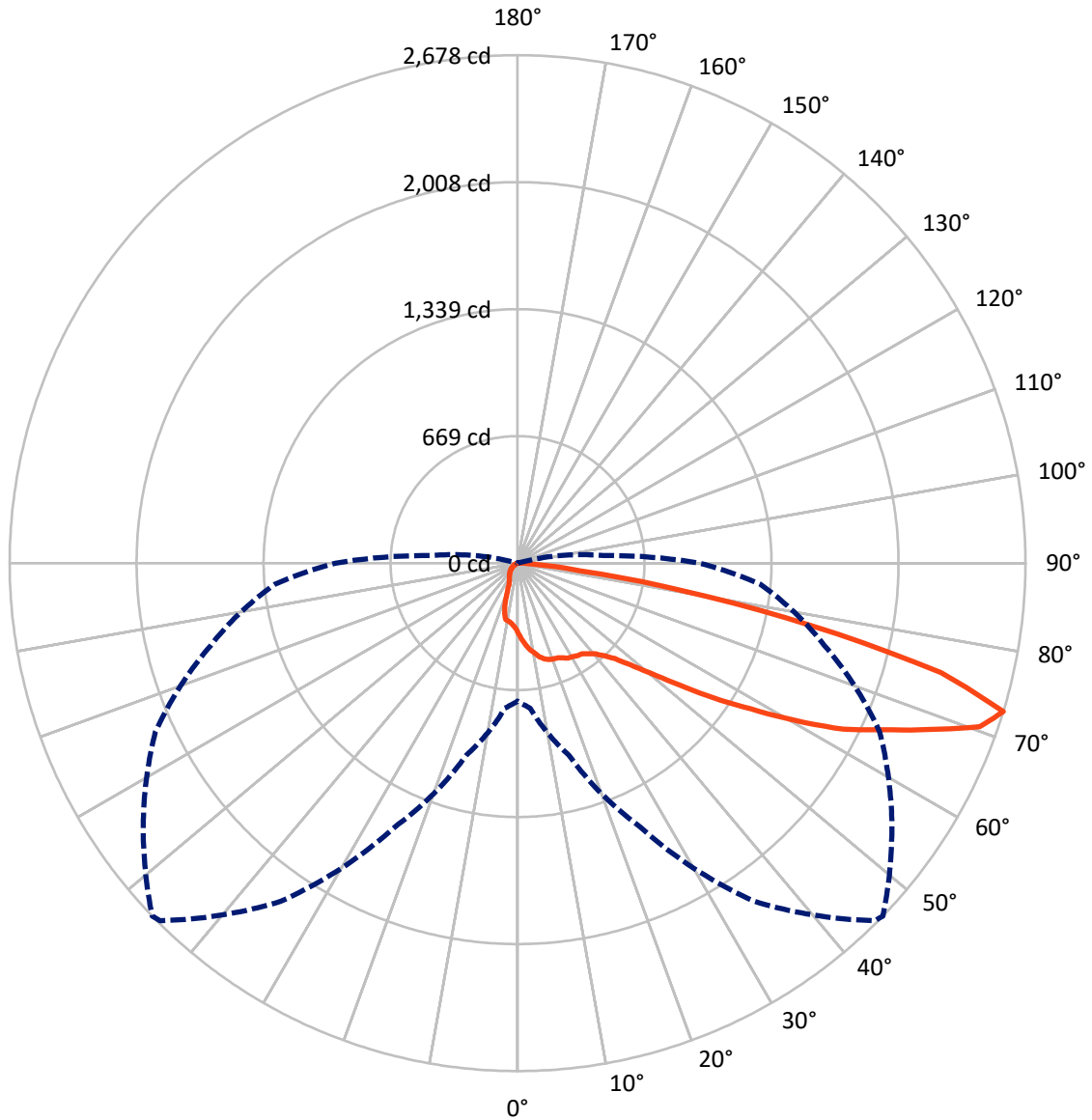
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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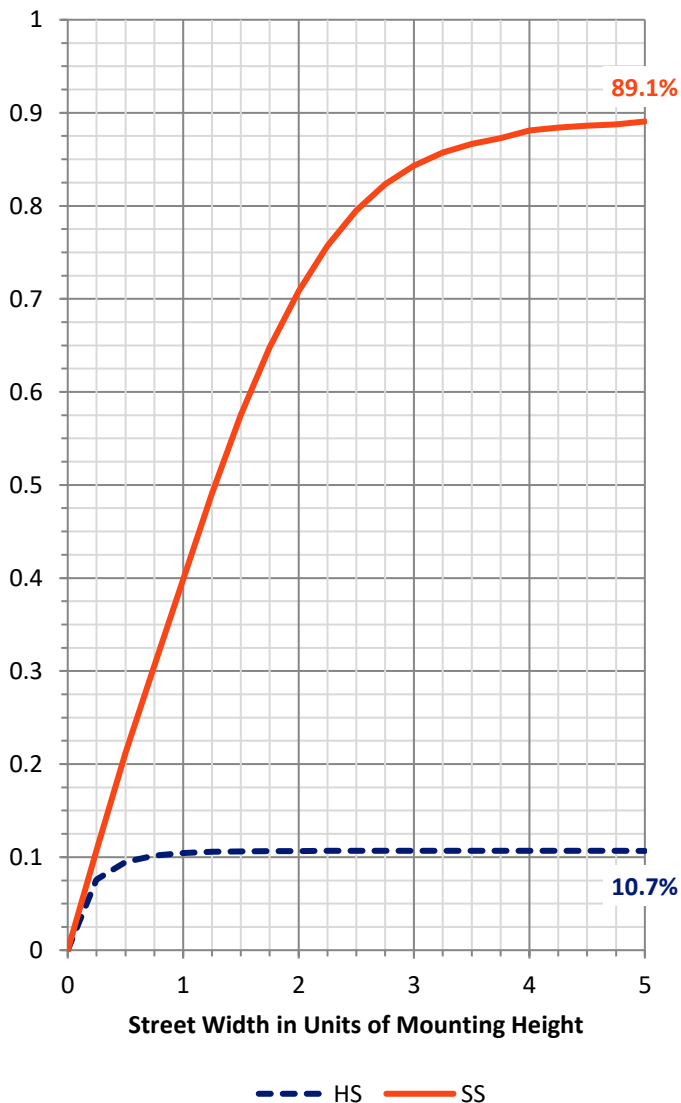
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	369.4	0.0	369.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3061.2	0.0	3061.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	3430.6	0.0	3430.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	1.1
10°-20°	110.8	3.2
20°-30°	173.4	5.1
30°-40°	242.9	7.1
40°-50°	400.5	11.7
50°-60°	719.9	21.0
60°-70°	1043.4	30.4
70°-80°	651.2	19.0
80°-90°	51.6	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°	3430.6	100.0
0°-180°	3430.6	100.0



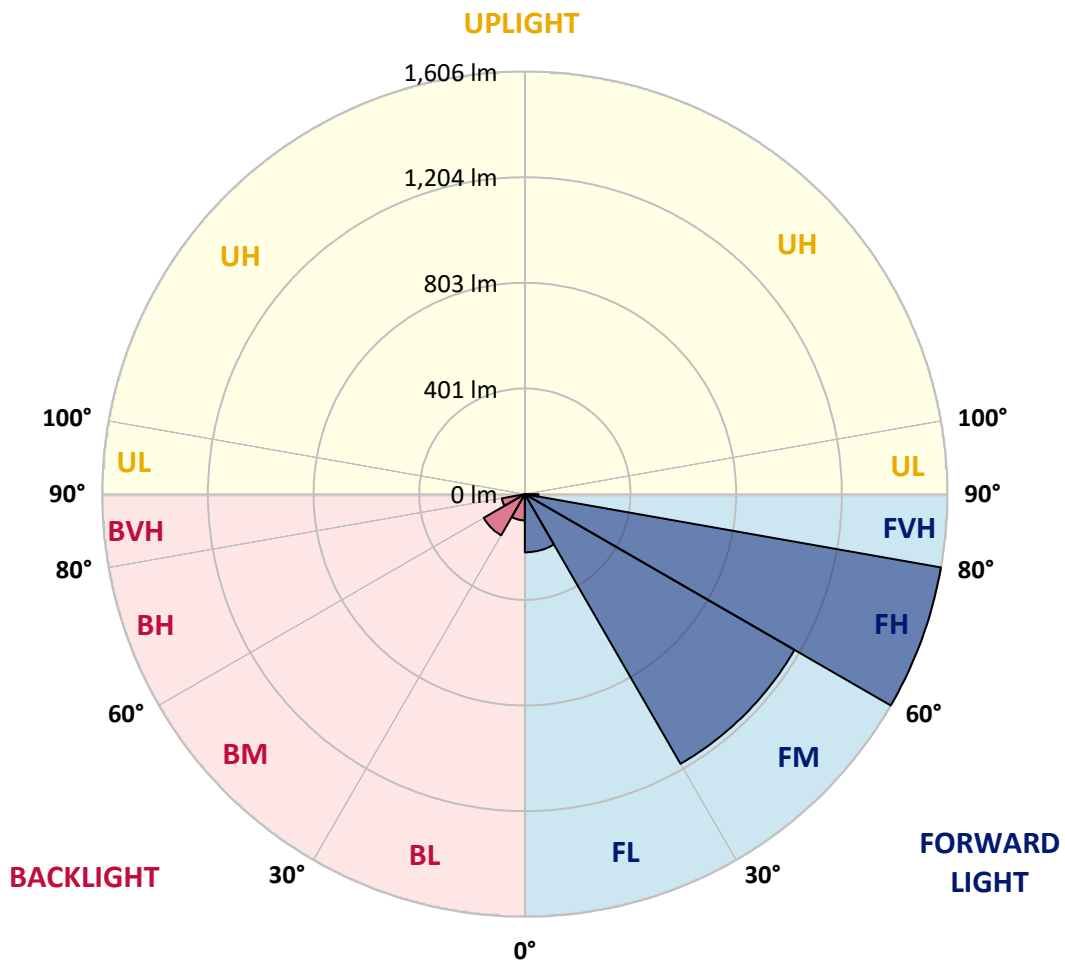
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.1	6.4			
FM (30°-60°)	1182.9	34.5			
FH (60°-80°)	1605.8	46.8			G1/1800
FVH (80°-90°)	51.3	1.5			G1/100
BL (0°-30°)	99.8	2.9	B0/110		
BM (30°-60°)	180.4	5.3	B0/220		
BH (60°-80°)	88.8	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: B0-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6
2.5°	410.4	408.6	411.3	410.4	399.9	401.6	400.8	393.8	381.5	374.5	370.1
5°	457.6	462.0	458.5	450.6	444.5	432.3	430.5	419.1	399.9	387.6	374.5
7.5°	506.6	506.6	499.6	487.4	474.3	461.1	459.4	440.1	423.5	402.5	384.1
10°	543.4	539.0	533.8	520.6	505.8	488.3	479.5	465.5	447.1	421.8	398.1
12.5°	575.8	568.8	560.0	540.8	523.3	504.0	505.8	483.0	470.8	448.0	413.0
15°	594.2	588.0	580.1	562.6	535.5	526.8	523.3	509.3	487.4	464.6	431.4
17.5°	598.5	594.2	583.7	560.9	546.0	535.5	534.6	518.0	508.4	489.1	452.4
20°	589.8	581.9	574.0	559.1	545.1	541.6	539.0	539.0	526.8	501.4	465.5
22.5°	574.9	566.1	561.8	553.0	541.6	540.8	542.5	540.8	531.1	514.5	479.5
25°	563.5	559.1	552.1	549.5	542.5	555.6	553.0	550.4	547.8	528.5	501.4
27.5°	567.0	566.1	560.9	550.4	545.1	559.1	567.0	567.9	567.0	547.8	521.5
30°	568.8	564.4	559.1	556.5	558.3	572.3	572.3	591.5	583.7	564.4	541.6
32.5°	588.9	586.3	568.8	562.6	563.5	580.1	581.0	600.3	597.7	584.5	559.1
35°	631.8	614.3	588.9	571.4	571.4	593.3	586.3	614.3	621.3	600.3	571.4
37.5°	695.7	682.5	637.0	597.7	582.8	598.5	605.5	621.3	642.3	623.9	595.9
40°	822.5	819.9	755.2	670.3	611.7	625.7	628.3	652.8	666.8	641.4	633.5
42.5°	1008.0	994.9	934.5	800.7	664.2	658.0	667.7	683.4	716.7	695.7	676.4
45°	1189.2	1183.1	1122.7	973.0	759.5	722.8	717.5	745.5	794.5	771.8	756.9
47.5°	1320.4	1308.2	1274.1	1148.0	899.5	798.9	802.4	830.4	892.5	875.0	879.4
50°	1421.1	1414.9	1379.1	1309.9	1076.3	918.8	911.8	939.8	1023.8	1035.2	1047.4
52.5°	1531.3	1542.7	1494.6	1435.9	1285.4	1079.8	1064.0	1073.7	1182.2	1208.4	1242.6
55°	1637.2	1655.6	1607.4	1599.6	1504.2	1258.3	1255.7	1232.9	1372.9	1376.4	1394.8
57.5°	1706.3	1700.2	1696.7	1739.6	1722.9	1463.1	1449.9	1427.2	1554.1	1531.3	1586.4
60°	1711.6	1729.1	1787.7	1893.6	1923.3	1703.7	1684.4	1622.3	1710.7	1656.4	1761.5
62.5°	1751.0	1765.0	1873.5	2019.6	2058.1	1915.5	1928.6	1771.1	1844.6	1801.7	1955.7
65°	1651.2	1694.9	1912.8	2117.6	2234.8	2129.8	2116.7	1962.7	1982.0	1941.7	2147.3
67.5°	1561.1	1577.7	1805.2	2147.3	2374.9	2345.1	2339.9	2132.5	2123.7	2049.3	2201.6
70°	1268.8	1288.9	1513.8	1995.1	2422.1	2596.2	2584.0	2370.5	2220.0	1990.7	1923.3
72.5°	727.2	767.4	1049.2	1536.6	2176.2	2666.2	2677.6	2409.0	2106.2	1673.9	1284.6
75°	238.0	249.4	435.8	870.7	1627.6	2325.9	2305.7	2070.3	1699.3	1105.2	580.1
77.5°	80.5	82.3	128.6	315.0	902.2	1571.6	1582.9	1479.7	1043.9	459.4	160.1
80°	41.1	43.8	63.0	118.1	371.0	855.8	874.2	843.5	437.5	135.6	38.5
82.5°	19.3	20.1	36.8	65.6	169.8	336.0	336.0	369.3	154.9	76.1	15.8
85°	7.0	7.0	19.3	37.6	71.8	112.0	112.9	113.8	81.4	56.9	7.0
87.5°	2.6	2.6	9.6	15.8	26.3	34.1	34.1	27.1	41.1	37.6	2.6
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°	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6
2.5°	368.4	363.1	358.8	352.6	344.8	340.4	341.3	336.0	336.0	333.4	332.5
5°	368.4	363.1	351.8	341.3	334.3	325.5	321.1	317.6	317.6	315.9	316.8
7.5°	371.0	363.1	347.4	333.4	322.0	313.3	306.3	305.4	303.6	299.3	302.8
10°	386.8	375.4	349.1	329.9	316.8	307.1	294.9	291.4	286.1	278.3	279.1
12.5°	399.9	385.0	361.4	335.1	318.5	302.8	274.8	244.1	231.0	217.0	217.9
15°	419.1	398.1	365.8	342.1	318.5	267.8	217.0	177.6	156.6	146.1	146.1
17.5°	429.6	412.1	378.0	346.5	293.1	217.9	154.0	119.9	116.4	118.1	118.1
20°	451.5	427.9	392.0	350.0	251.1	154.9	112.9	109.4	111.1	114.6	113.8
22.5°	465.5	441.9	402.5	334.3	194.3	111.1	105.9	104.1	105.9	110.3	110.3
25°	476.9	462.0	419.1	295.8	137.4	100.6	98.9	100.6	102.4	104.1	106.8
27.5°	504.9	479.5	430.5	245.9	98.9	93.6	95.4	96.3	96.3	98.9	99.8
30°	523.3	503.1	439.3	189.9	87.5	86.6	88.4	89.3	90.1	92.8	93.6
32.5°	540.8	533.8	427.9	128.6	82.3	80.5	79.6	80.5	84.0	86.6	85.8
35°	566.1	561.8	411.3	89.3	77.0	73.5	71.8	72.6	75.3	77.9	77.0
37.5°	596.8	601.2	371.0	77.9	71.8	67.4	63.9	63.9	64.8	67.4	68.3
40°	632.7	644.0	323.8	72.6	68.3	63.0	59.5	55.1	54.3	53.4	54.3
42.5°	698.3	711.4	270.4	69.1	63.0	56.9	51.6	46.4	42.0	39.4	39.4
45°	790.2	779.7	200.4	65.6	60.4	51.6	43.8	37.6	31.5	28.9	28.9
47.5°	917.0	881.2	137.4	62.1	56.0	45.5	36.8	28.9	23.6	21.0	21.0
50°	1092.9	974.8	89.3	58.6	53.4	39.4	29.8	21.0	17.5	16.6	17.5
52.5°	1259.2	1070.2	70.9	54.3	48.1	34.1	22.8	17.5	15.8	14.9	14.9
55°	1412.3	1118.3	63.0	49.9	43.8	28.0	19.3	14.9	14.0	13.1	13.1
57.5°	1541.8	1134.9	54.3	43.8	35.0	21.9	15.8	13.1	11.4	10.5	10.5
60°	1653.8	1139.3	42.0	35.0	25.4	16.6	13.1	11.4	9.6	7.9	7.9
62.5°	1743.1	1108.7	29.8	24.5	17.5	13.1	11.4	7.9	5.3	3.5	2.6
65°	1814.0	1047.4	20.1	16.6	11.4	9.6	7.0	3.5	0.9	0.0	0.0
67.5°	1730.8	908.3	15.8	12.3	7.9	6.1	3.5	0.9	0.0	0.0	0.0
70°	1411.4	704.4	11.4	7.9	5.3	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	960.8	454.1	8.8	5.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0
75°	431.4	162.8	6.1	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	105.0	38.5	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.0	9.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	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)