

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: P676565

Luminaire Tested: **CCW-SA-1D-740-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676565
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-740-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

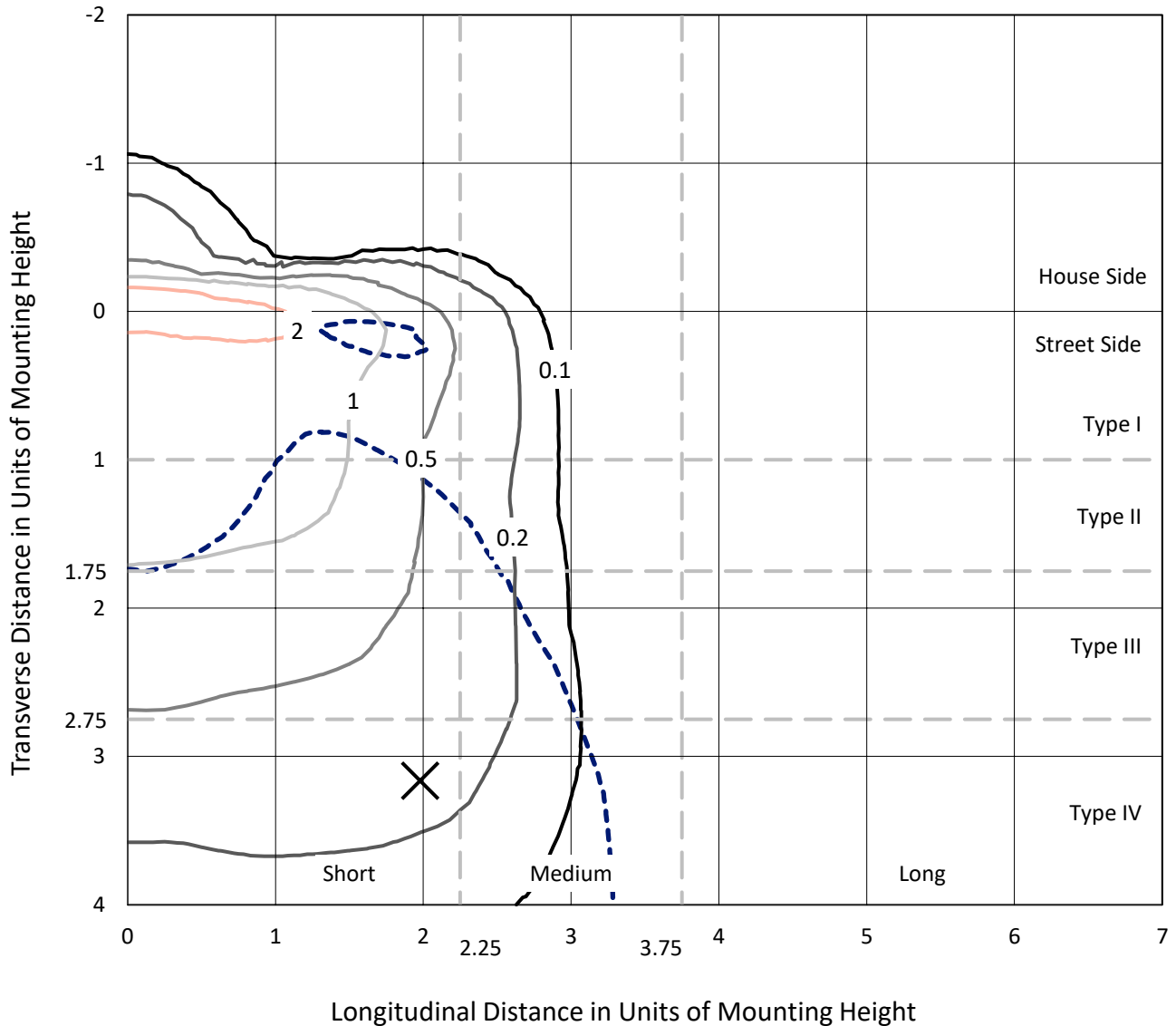
Lumens per Lamp: N/A
Luminaire Lumens: 4004.5 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

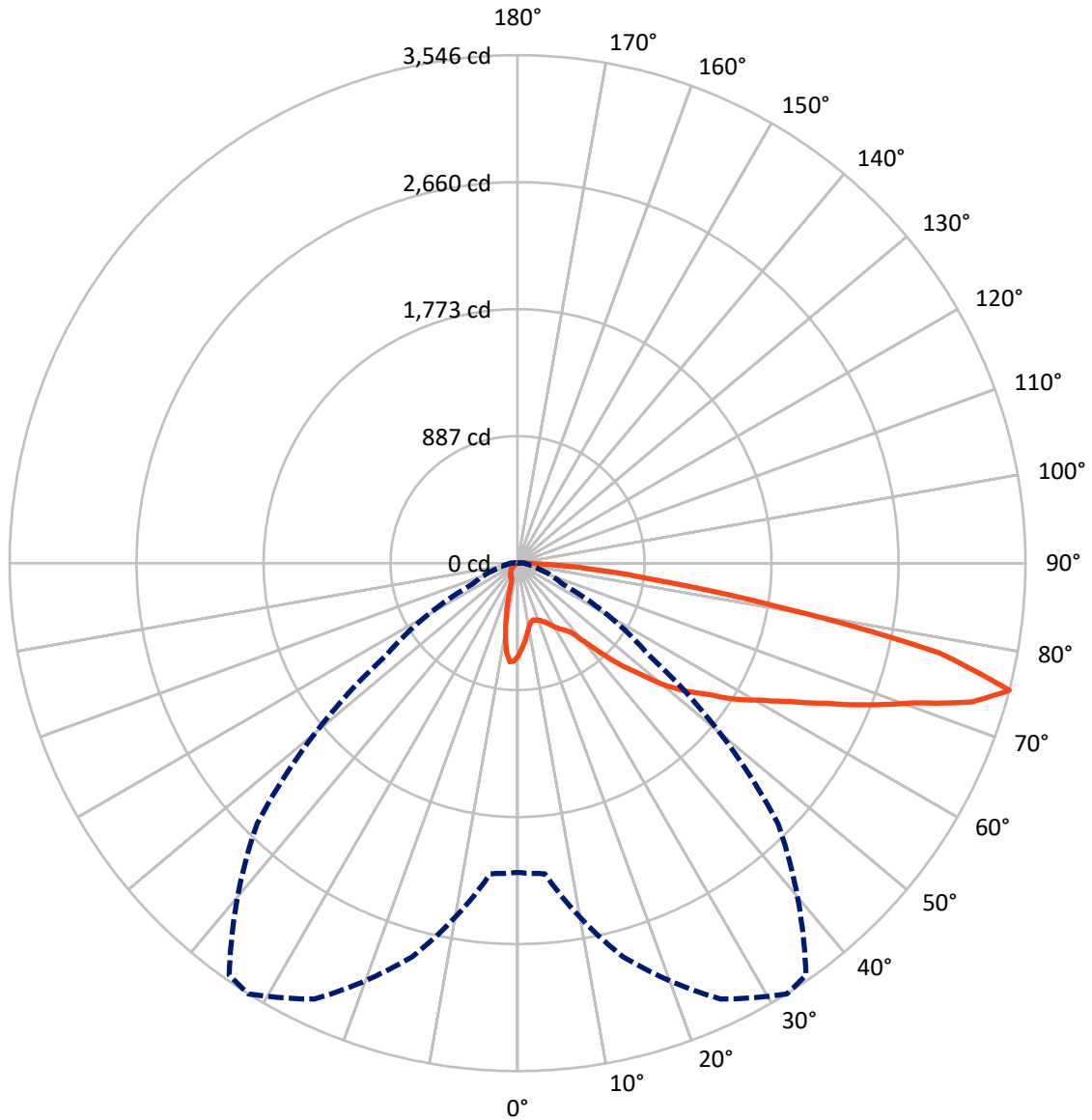
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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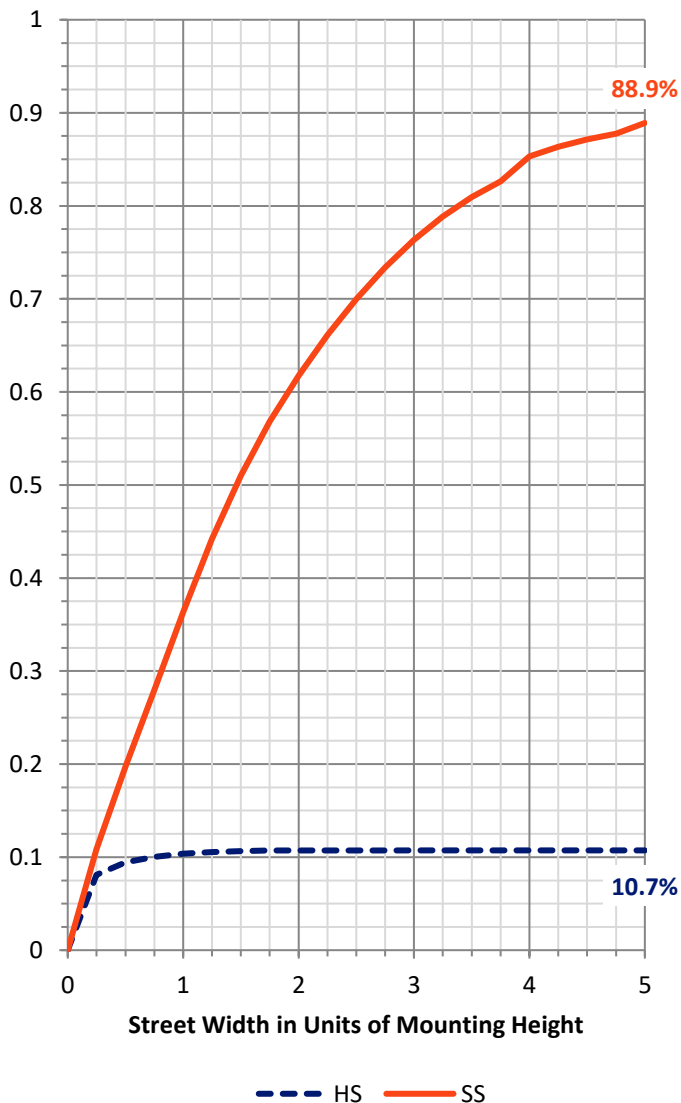
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	432.6	0.0	432.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3571.9	0.0	3571.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	4004.5	0.0	4004.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.4
10°-20°	129.0	3.2
20°-30°	193.2	4.8
30°-40°	296.5	7.4
40°-50°	518.5	12.9
50°-60°	810.5	20.2
60°-70°	1047.8	26.2
70°-80°	853.4	21.3
80°-90°	98.8	2.5
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°	4004.5	100.0
0°-180°	4004.5	100.0



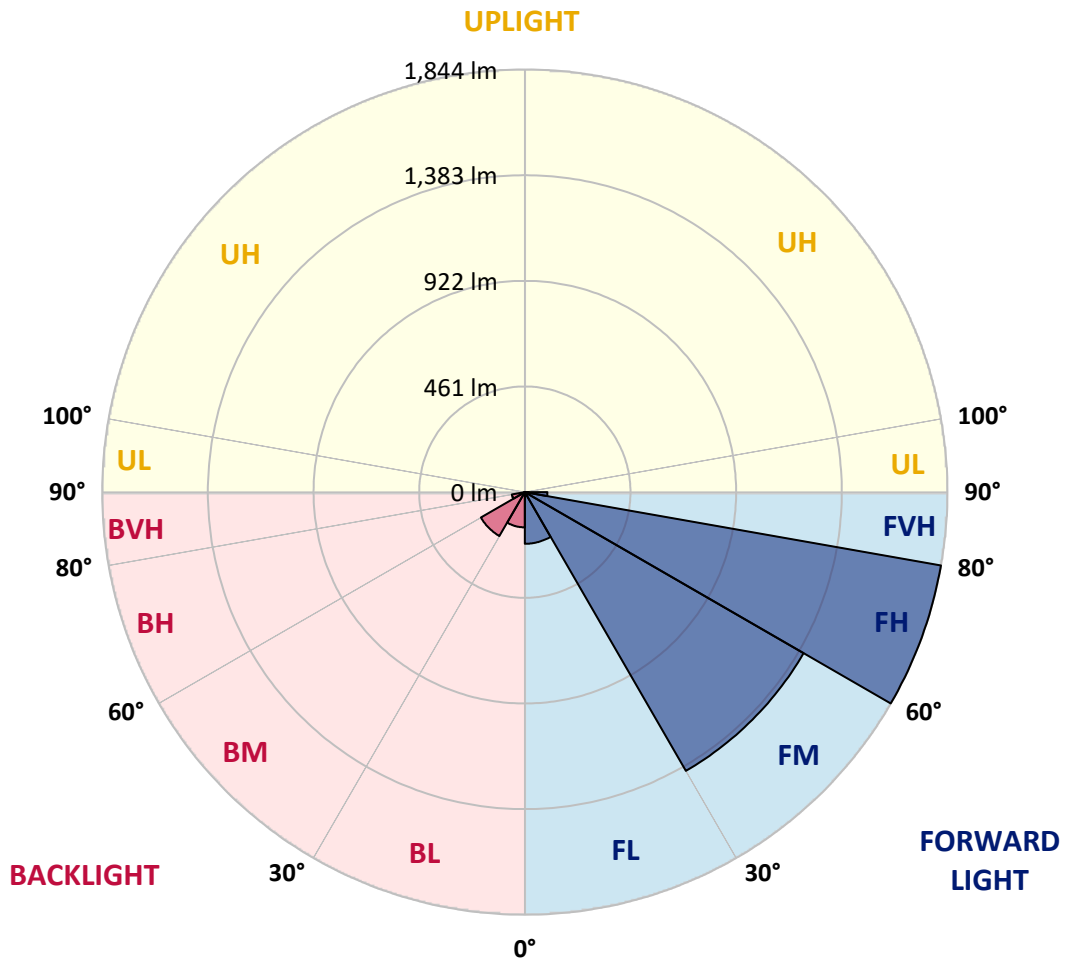
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.3	5.6			
FM (30°-60°)	1404.1	35.1			
FH (60°-80°)	1843.7	46.0			G2/5000
FVH (80°-90°)	98.7	2.5			G1/100
BL (0°-30°)	153.7	3.8	B1/500		
BM (30°-60°)	221.3	5.5	B1/1000		
BH (60°-80°)	57.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6
2.5°	579.9	588.1	587.1	592.2	593.2	596.3	603.5	603.5	624.0	638.4	647.6
5°	527.5	522.4	524.5	530.6	546.0	545.0	562.4	571.7	596.3	616.8	638.4
7.5°	462.9	461.9	466.0	480.3	491.6	500.9	519.3	542.9	575.8	606.6	644.5
10°	421.8	419.8	428.0	432.1	445.4	451.6	480.3	517.3	556.3	600.4	644.5
12.5°	412.6	405.4	409.5	408.5	420.8	423.9	451.6	496.8	544.0	598.4	652.8
15°	417.7	412.6	408.5	408.5	411.6	413.6	443.4	483.4	536.8	601.4	671.2
17.5°	434.1	431.1	418.7	406.4	419.8	419.8	438.2	480.3	537.8	610.7	693.8
20°	453.6	450.6	429.0	414.6	423.9	434.1	453.6	487.5	540.9	617.9	728.7
22.5°	475.2	475.2	445.4	429.0	441.3	442.4	477.3	510.1	553.2	636.3	751.3
25°	501.9	499.8	471.1	452.6	456.7	468.0	499.8	534.7	575.8	662.0	793.4
27.5°	536.8	533.7	499.8	481.4	486.5	498.8	534.7	569.6	596.3	672.3	829.3
30°	565.5	562.4	534.7	507.0	518.3	529.6	571.7	602.5	622.0	691.8	870.3
32.5°	571.7	566.5	548.1	535.8	548.1	569.6	602.5	634.3	664.0	741.0	948.3
35°	642.5	624.0	575.8	556.3	574.8	581.9	636.3	692.8	721.5	780.0	1035.6
37.5°	778.0	760.5	696.9	642.5	616.8	625.0	695.9	765.7	793.4	852.9	1131.0
40°	944.2	915.5	847.8	774.9	722.5	712.3	758.5	861.1	887.8	944.2	1256.2
42.5°	1134.1	1106.4	1001.7	915.5	862.1	848.8	856.0	972.0	994.5	1028.4	1338.4
45°	1270.6	1256.2	1138.2	1061.2	1019.2	1004.8	987.3	1093.1	1121.8	1133.1	1457.4
47.5°	1349.6	1339.4	1273.7	1221.4	1164.9	1149.5	1160.8	1261.4	1241.9	1251.1	1571.3
50°	1455.4	1428.7	1339.4	1355.8	1344.5	1340.4	1359.9	1404.0	1375.3	1348.6	1695.5
52.5°	1540.5	1493.3	1430.7	1470.8	1488.2	1503.6	1572.4	1605.2	1476.9	1435.9	1775.6
55°	1592.9	1547.7	1564.2	1601.1	1619.6	1690.4	1771.5	1746.8	1543.6	1505.7	1882.3
57.5°	1640.1	1643.2	1687.3	1698.6	1793.0	1805.3	1961.3	1881.3	1590.8	1569.3	1924.4
60°	1754.0	1742.7	1778.7	1851.5	1941.8	2010.6	2159.4	1971.6	1614.4	1602.1	1913.1
62.5°	1959.3	1889.5	1901.8	1994.2	2126.6	2201.5	2273.4	2012.7	1608.3	1607.3	1879.2
65°	2220.0	2139.9	2103.0	2189.2	2360.6	2466.3	2401.7	2058.9	1567.2	1596.0	1753.0
67.5°	2436.5	2437.6	2368.8	2417.0	2640.8	2663.4	2522.8	2049.6	1498.5	1506.7	1445.1
70°	2685.9	2719.8	2659.3	2810.1	2922.0	2936.4	2661.3	1973.7	1350.7	1136.2	830.3
72.5°	2749.6	2767.0	2955.9	3187.8	3314.1	3318.2	2797.8	1720.2	888.8	501.9	257.6
75°	2159.4	2175.9	2845.0	3358.2	3546.0	3510.1	2570.0	1116.7	345.9	146.8	61.6
77.5°	1204.9	1210.1	1766.3	2714.7	3008.2	2863.5	1800.2	435.2	139.6	84.2	28.7
80°	329.5	386.9	654.8	1338.4	1837.2	1803.3	857.0	141.6	90.3	65.7	13.3
82.5°	79.0	85.2	210.4	592.2	970.9	1013.0	255.6	71.8	62.6	54.4	7.2
85°	28.7	31.8	64.7	288.4	498.8	457.8	77.0	35.9	46.2	42.1	3.1
87.5°	10.3	10.3	20.5	94.4	145.7	109.8	25.7	12.3	23.6	25.7	1.0
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°	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6
2.5°	648.7	648.7	663.0	675.3	679.4	684.6	679.4	690.7	689.7	684.6	686.6
5°	649.7	668.2	680.5	688.7	692.8	691.8	693.8	681.5	674.3	669.2	664.0
7.5°	654.8	672.3	694.8	692.8	681.5	657.9	639.4	606.6	574.8	573.7	568.6
10°	672.3	687.7	701.0	692.8	651.7	579.9	521.4	477.3	437.2	418.7	420.8
12.5°	684.6	713.3	707.2	665.1	579.9	485.5	399.2	334.6	298.7	264.8	264.8
15°	710.2	720.5	718.4	625.0	491.6	378.7	274.0	208.3	170.4	155.0	152.9
17.5°	734.9	746.2	711.3	564.5	404.4	254.5	166.3	129.3	124.2	122.1	123.2
20°	765.7	766.7	705.1	503.9	303.8	161.1	119.1	116.0	117.0	116.0	116.0
22.5°	798.5	805.7	683.5	418.7	202.2	117.0	110.8	111.9	111.9	111.9	115.0
25°	841.6	830.3	649.7	337.7	132.4	107.8	107.8	108.8	108.8	108.8	109.8
27.5°	870.3	854.9	606.6	243.2	103.7	101.6	103.7	103.7	105.7	105.7	105.7
30°	929.9	889.8	552.2	157.0	93.4	96.5	98.5	100.6	101.6	103.7	104.7
32.5°	976.1	920.6	484.4	104.7	85.2	87.2	92.4	96.5	100.6	99.6	99.6
35°	1060.2	970.9	421.8	83.1	78.0	78.0	83.1	90.3	96.5	98.5	98.5
37.5°	1156.7	1012.0	334.6	75.9	71.8	71.8	74.9	83.1	91.3	95.5	93.4
40°	1236.7	1059.2	247.3	70.8	66.7	66.7	68.8	74.9	84.2	91.3	92.4
42.5°	1293.2	1094.1	167.3	65.7	62.6	61.6	64.7	67.7	74.9	85.2	87.2
45°	1344.5	1112.6	103.7	60.6	58.5	58.5	58.5	61.6	66.7	75.9	78.0
47.5°	1435.9	1133.1	74.9	56.4	53.4	54.4	55.4	56.4	60.6	62.6	63.6
50°	1512.8	1148.5	61.6	52.3	50.3	51.3	51.3	51.3	53.4	50.3	50.3
52.5°	1571.3	1133.1	52.3	48.2	46.2	47.2	46.2	46.2	44.1	40.0	40.0
55°	1614.4	1105.4	42.1	44.1	44.1	44.1	42.1	39.0	34.9	31.8	31.8
57.5°	1625.7	1058.2	32.8	36.9	40.0	40.0	35.9	31.8	26.7	23.6	22.6
60°	1608.3	955.5	24.6	26.7	30.8	31.8	28.7	23.6	18.5	15.4	15.4
62.5°	1545.7	874.4	19.5	17.4	22.6	23.6	20.5	15.4	10.3	7.2	6.2
65°	1426.6	749.2	14.4	12.3	15.4	16.4	13.3	7.2	3.1	1.0	0.0
67.5°	1144.4	564.5	9.2	8.2	10.3	10.3	6.2	2.1	0.0	0.0	0.0
70°	633.3	317.1	6.2	4.1	5.1	3.1	1.0	0.0	0.0	0.0	0.0
72.5°	182.7	90.3	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	49.3	21.6	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.6	8.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	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)