

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: P676766

Luminaire Tested: **CCW-SA-1F-835-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676766
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

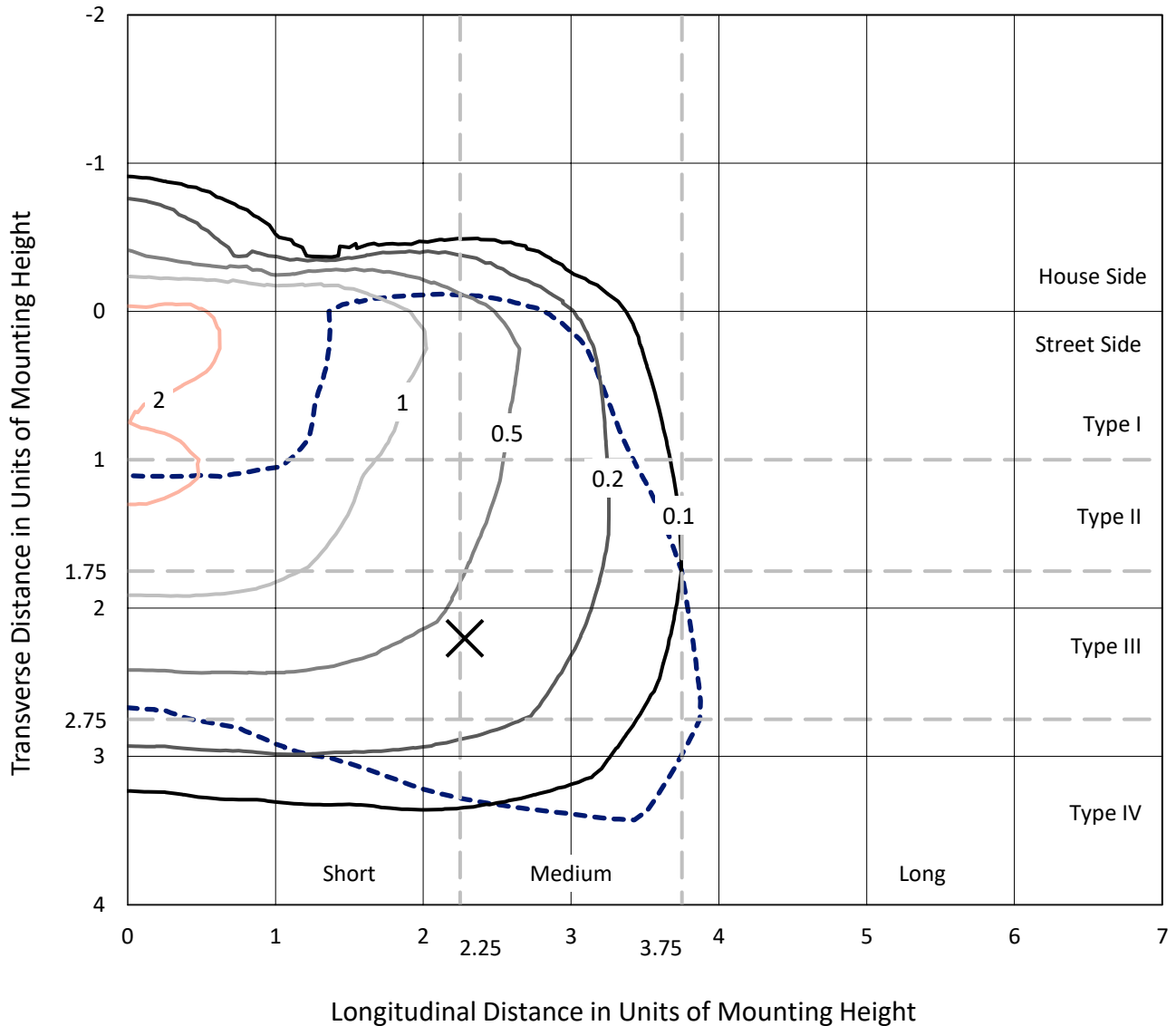
Lumens per Lamp: N/A
Luminaire Lumens: 4457.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

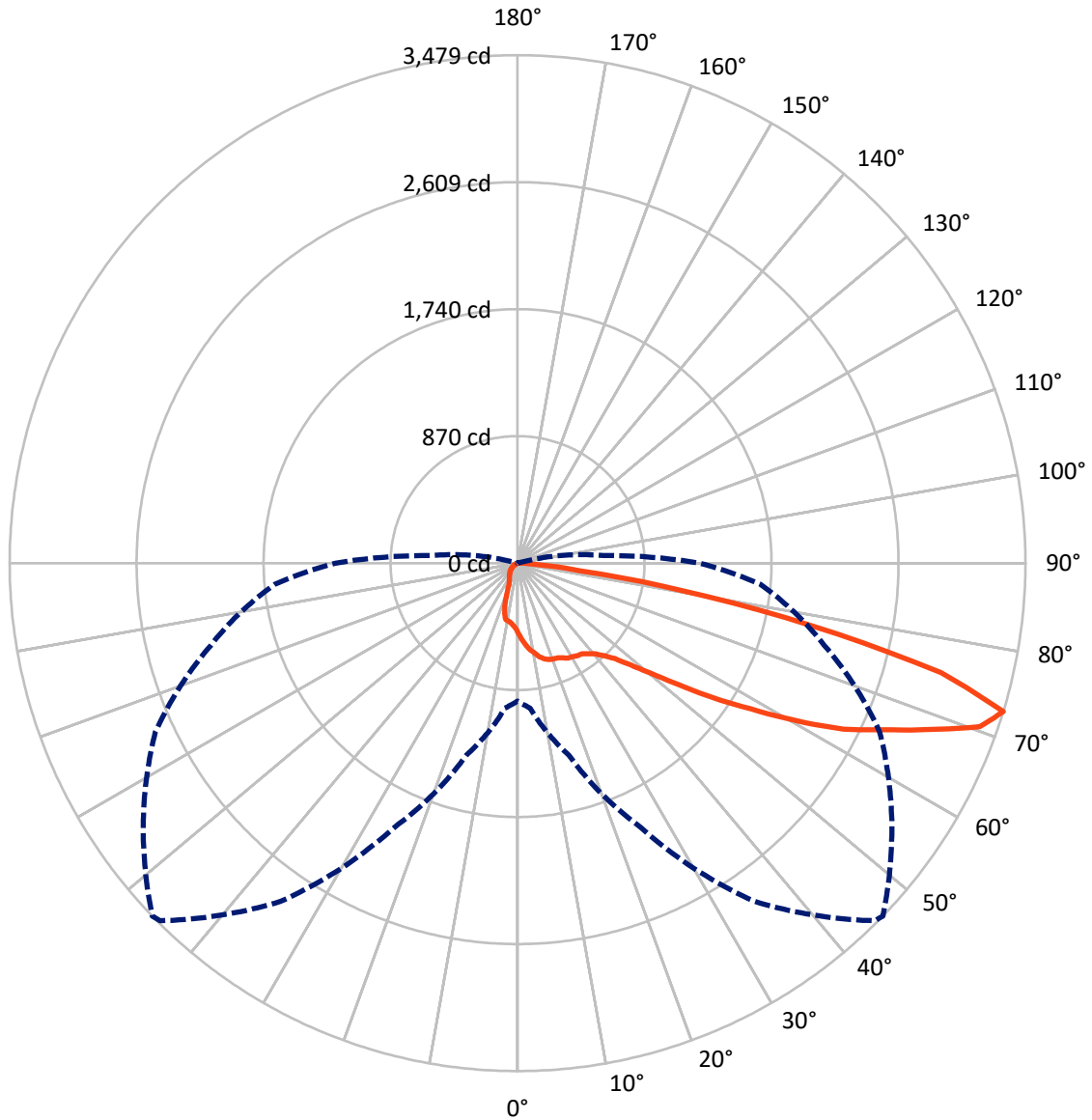
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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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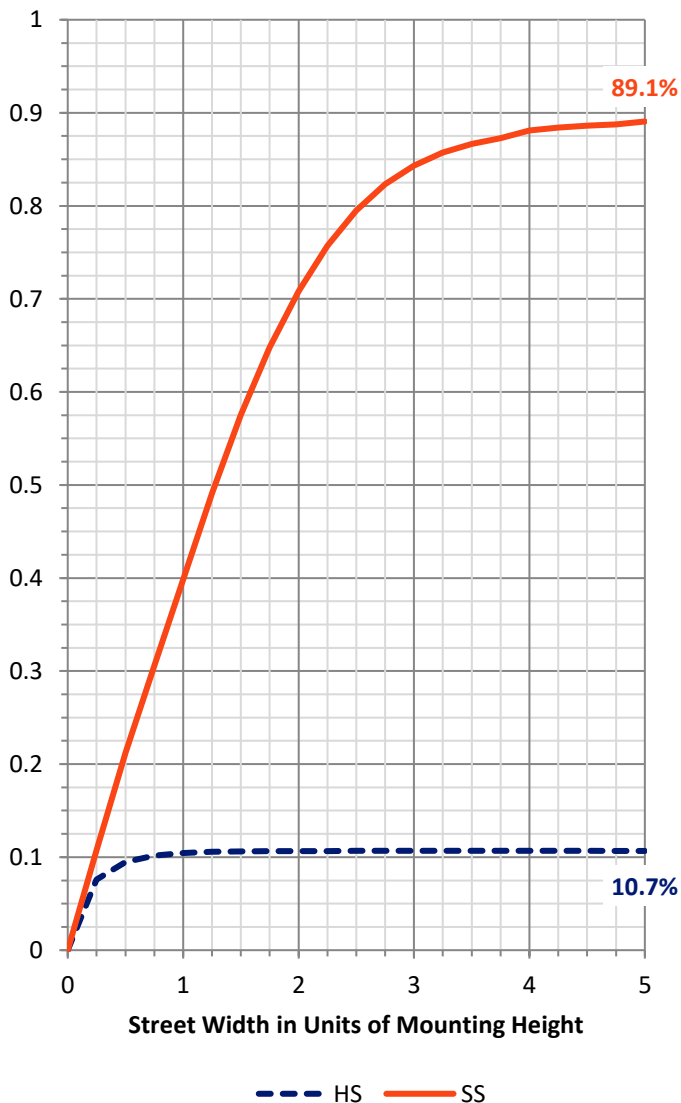
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.9	0.0	479.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3977.5	0.0	3977.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	4457.4	0.0	4457.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	1.1
10°-20°	143.9	3.2
20°-30°	225.4	5.1
30°-40°	315.6	7.1
40°-50°	520.4	11.7
50°-60°	935.4	21.0
60°-70°	1355.7	30.4
70°-80°	846.1	19.0
80°-90°	67.1	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°	4457.4	100.0
0°-180°	4457.4	100.0

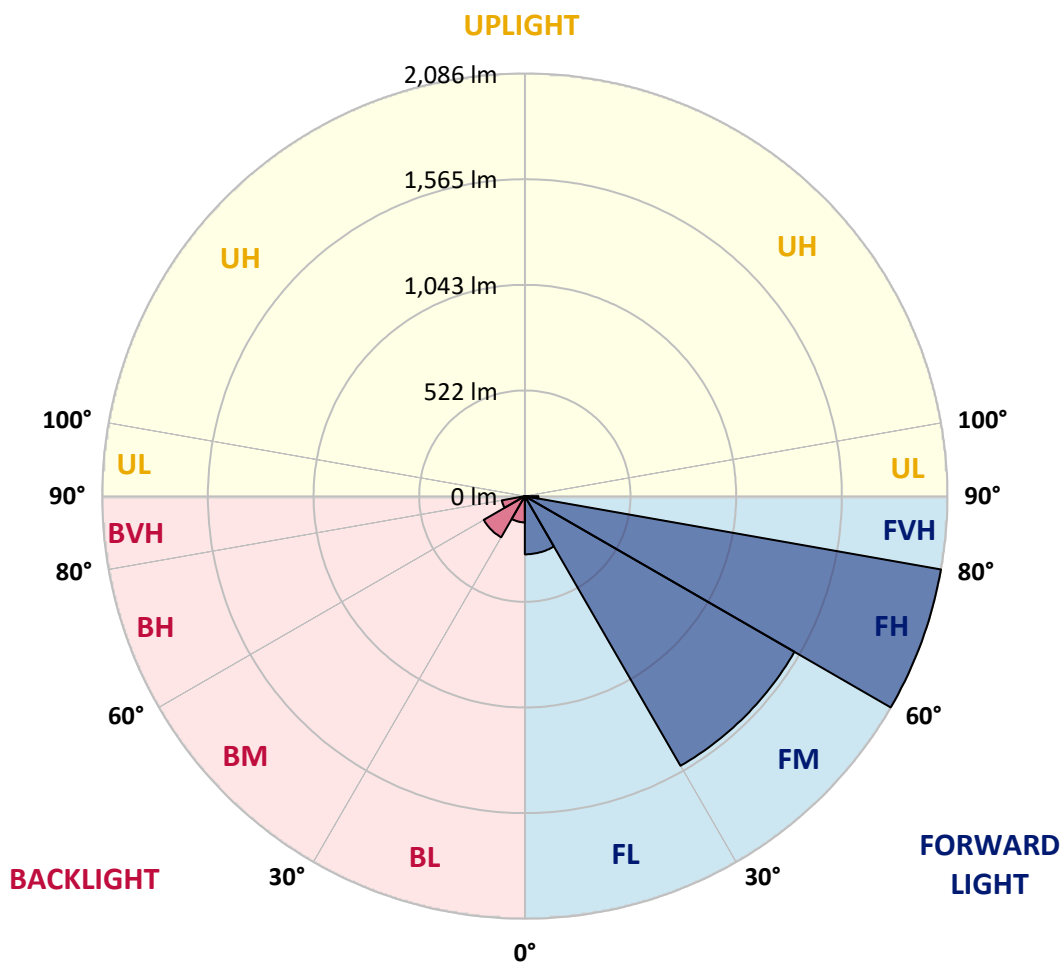


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.3	6.4			
FM (30°-60°)	1537.0	34.5			
FH (60°-80°)	2086.5	46.8			G2/5000
FVH (80°-90°)	66.7	1.5			G1/100
BL (0°-30°)	129.7	2.9	B1/500		
BM (30°-60°)	234.4	5.3	B1/1000		
BH (60°-80°)	115.4	2.6	B1/500		G1/500
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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4
2.5°	533.2	531.0	534.4	533.2	519.6	521.9	520.7	511.6	495.7	486.6	480.9
5°	594.6	600.3	595.8	585.5	577.6	561.7	559.4	544.6	519.6	503.7	486.6
7.5°	658.3	658.3	649.2	633.3	616.2	599.2	596.9	571.9	550.3	523.0	499.1
10°	706.0	700.4	693.5	676.5	657.2	634.4	623.1	604.9	581.0	548.0	517.3
12.5°	748.1	739.0	727.7	702.6	679.9	654.9	657.2	627.6	611.7	582.1	536.6
15°	772.0	764.0	753.8	731.1	695.8	684.4	679.9	661.7	633.3	603.7	560.5
17.5°	777.7	772.0	758.3	728.8	709.5	695.8	694.7	673.1	660.6	635.6	587.8
20°	766.3	756.1	745.8	726.5	708.3	703.8	700.4	700.4	684.4	651.5	604.9
22.5°	747.0	735.6	729.9	718.6	703.8	702.6	704.9	702.6	690.1	668.5	623.1
25°	732.2	726.5	717.4	714.0	704.9	722.0	718.6	715.1	711.7	686.7	651.5
27.5°	736.7	735.6	728.8	715.1	708.3	726.5	736.7	737.9	736.7	711.7	677.6
30°	739.0	733.3	726.5	723.1	725.4	743.6	743.6	768.6	758.3	733.3	703.8
32.5°	765.2	761.8	739.0	731.1	732.2	753.8	754.9	780.0	776.5	759.5	726.5
35°	820.9	798.1	765.2	742.4	742.4	770.9	761.8	798.1	807.2	780.0	742.4
37.5°	903.9	886.8	827.7	776.5	757.2	777.7	786.8	807.2	834.5	810.6	774.3
40°	1068.7	1065.3	981.2	870.9	794.7	812.9	816.3	848.2	866.4	833.4	823.2
42.5°	1309.8	1292.7	1214.3	1040.3	862.9	855.0	867.5	888.0	931.2	903.9	878.9
45°	1545.1	1537.2	1458.7	1264.3	986.9	939.1	932.3	968.7	1032.4	1002.8	983.5
47.5°	1715.7	1699.7	1655.4	1491.7	1168.8	1038.0	1042.6	1079.0	1159.7	1137.0	1142.6
50°	1846.4	1838.5	1791.8	1702.0	1398.5	1193.8	1184.7	1221.1	1330.2	1345.0	1360.9
52.5°	1989.7	2004.5	1941.9	1865.7	1670.2	1403.0	1382.5	1395.0	1536.0	1570.1	1614.5
55°	2127.2	2151.1	2088.6	2078.4	1954.4	1634.9	1631.5	1602.0	1783.9	1788.4	1812.3
57.5°	2217.1	2209.1	2204.6	2260.3	2238.7	1901.0	1883.9	1854.4	2019.2	1989.7	2061.3
60°	2223.9	2246.6	2322.8	2460.4	2499.0	2213.7	2188.6	2107.9	2222.7	2152.3	2288.7
62.5°	2275.0	2293.2	2434.2	2624.1	2674.1	2488.8	2505.8	2301.2	2396.7	2341.0	2541.1
65°	2145.4	2202.3	2485.4	2751.4	2903.8	2767.3	2750.3	2550.2	2575.2	2522.9	2790.1
67.5°	2028.3	2049.9	2345.5	2790.1	3085.7	3047.0	3040.2	2770.8	2759.4	2662.7	2860.6
70°	1648.6	1674.7	1966.9	2592.3	3147.1	3373.3	3357.4	3080.0	2884.5	2586.6	2499.0
72.5°	944.8	997.1	1363.2	1996.5	2827.6	3464.3	3479.1	3130.0	2736.6	2175.0	1669.0
75°	309.3	324.0	566.2	1131.3	2114.7	3022.0	2995.9	2690.0	2208.0	1436.0	753.8
77.5°	104.6	106.9	167.1	409.3	1172.2	2042.0	2056.8	1922.6	1356.4	596.9	208.1
80°	53.4	56.8	81.9	153.5	482.1	1111.9	1135.8	1096.0	568.5	176.2	50.0
82.5°	25.0	26.1	47.8	85.3	220.6	436.6	436.6	479.8	201.2	98.9	20.5
85°	9.1	9.1	25.0	48.9	93.2	145.5	146.7	147.8	105.7	73.9	9.1
87.5°	3.4	3.4	12.5	20.5	34.1	44.3	44.3	35.2	53.4	48.9	3.4
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°	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4
2.5°	478.7	471.8	466.2	458.2	448.0	442.3	443.4	436.6	436.6	433.2	432.0
5°	478.7	471.8	457.1	443.4	434.3	422.9	417.3	412.7	412.7	410.4	411.6
7.5°	482.1	471.8	451.4	433.2	418.4	407.0	397.9	396.8	394.5	388.8	393.4
10°	502.5	487.8	453.6	428.6	411.6	399.1	383.2	378.6	371.8	361.6	362.7
12.5°	519.6	500.3	469.6	435.5	413.9	393.4	357.0	317.2	300.2	282.0	283.1
15°	544.6	517.3	475.2	444.5	413.9	347.9	282.0	230.8	203.5	189.9	189.9
17.5°	558.2	535.5	491.2	450.2	380.9	283.1	200.1	155.8	151.2	153.5	153.5
20°	586.7	556.0	509.4	454.8	326.3	201.2	146.7	142.1	144.4	148.9	147.8
22.5°	604.9	574.2	523.0	434.3	252.4	144.4	137.6	135.3	137.6	143.3	143.3
25°	619.6	600.3	544.6	384.3	178.5	130.7	128.5	130.7	133.0	135.3	138.7
27.5°	656.0	623.1	559.4	319.5	128.5	121.7	123.9	125.1	125.1	128.5	129.6
30°	679.9	653.7	570.8	246.7	113.7	112.6	114.8	116.0	117.1	120.5	121.7
32.5°	702.6	693.5	556.0	167.1	106.9	104.6	103.5	104.6	109.1	112.6	111.4
35°	735.6	729.9	534.4	116.0	100.1	95.5	93.2	94.4	97.8	101.2	100.1
37.5°	775.4	781.1	482.1	101.2	93.2	87.5	83.0	83.0	84.1	87.5	88.7
40°	822.0	836.8	420.7	94.4	88.7	81.9	77.3	71.6	70.5	69.4	70.5
42.5°	907.3	924.3	351.3	89.8	81.9	73.9	67.1	60.3	54.6	51.2	51.2
45°	1026.7	1013.0	260.4	85.3	78.4	67.1	56.8	48.9	40.9	37.5	37.5
47.5°	1191.5	1144.9	178.5	80.7	72.8	59.1	47.8	37.5	30.7	27.3	27.3
50°	1420.1	1266.6	116.0	76.2	69.4	51.2	38.7	27.3	22.7	21.6	22.7
52.5°	1636.1	1390.5	92.1	70.5	62.5	44.3	29.6	22.7	20.5	19.3	19.3
55°	1835.0	1453.0	81.9	64.8	56.8	36.4	25.0	19.3	18.2	17.1	17.1
57.5°	2003.3	1474.6	70.5	56.8	45.5	28.4	20.5	17.1	14.8	13.6	13.6
60°	2148.8	1480.3	54.6	45.5	33.0	21.6	17.1	14.8	12.5	10.2	10.2
62.5°	2264.8	1440.5	38.7	31.8	22.7	17.1	14.8	10.2	6.8	4.5	3.4
65°	2356.9	1360.9	26.1	21.6	14.8	12.5	9.1	4.5	1.1	0.0	0.0
67.5°	2248.9	1180.2	20.5	15.9	10.2	8.0	4.5	1.1	0.0	0.0	0.0
70°	1833.9	915.2	14.8	10.2	6.8	2.3	1.1	0.0	0.0	0.0	0.0
72.5°	1248.4	590.1	11.4	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0
75°	560.5	211.5	8.0	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	136.4	50.0	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.4	12.5	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.6	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.1	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)