

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: P676691

Luminaire Tested: **CCW-SA-2B-730-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676691
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-730-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

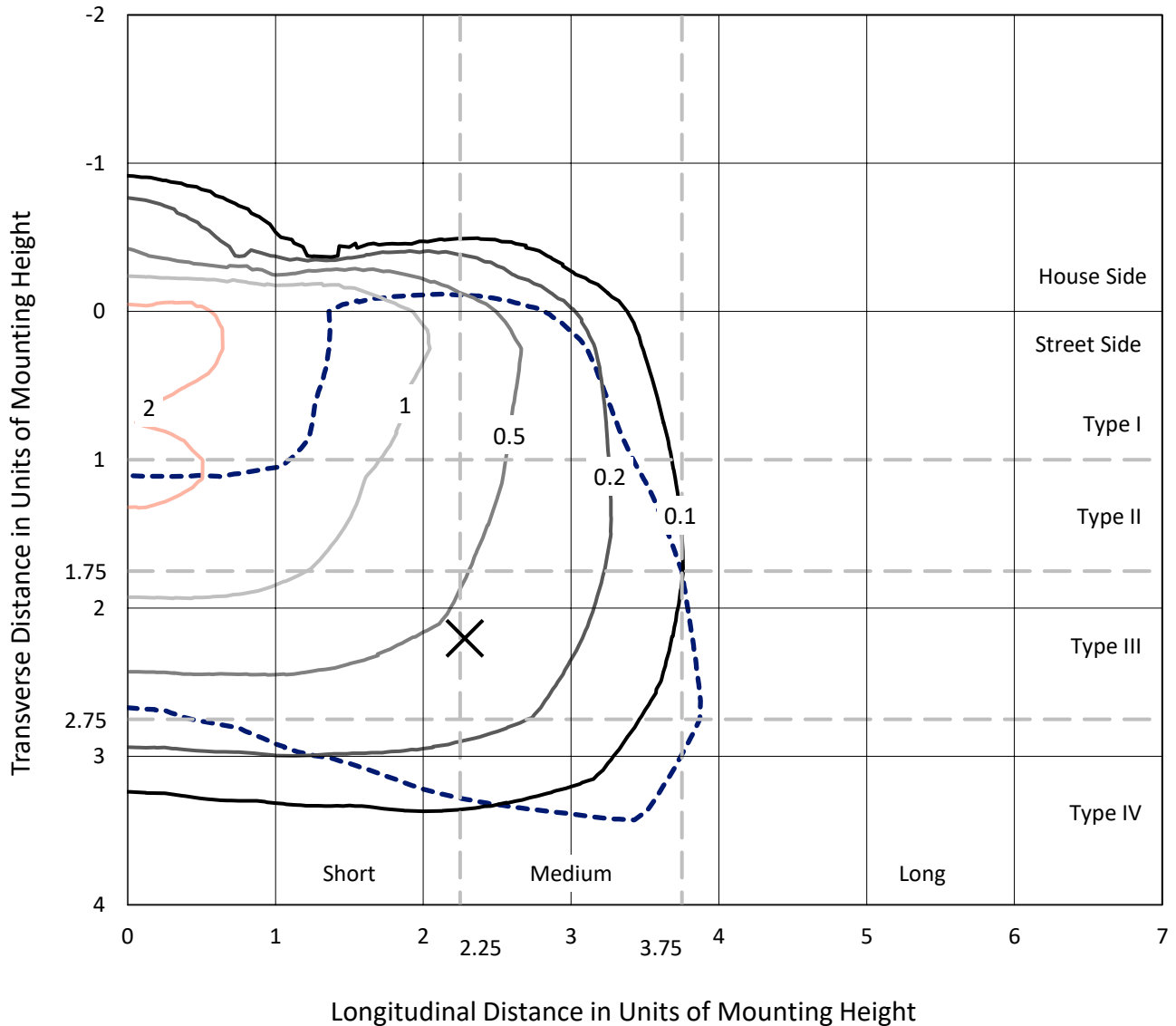
Lumens per Lamp: N/A
Luminaire Lumens: 4537.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

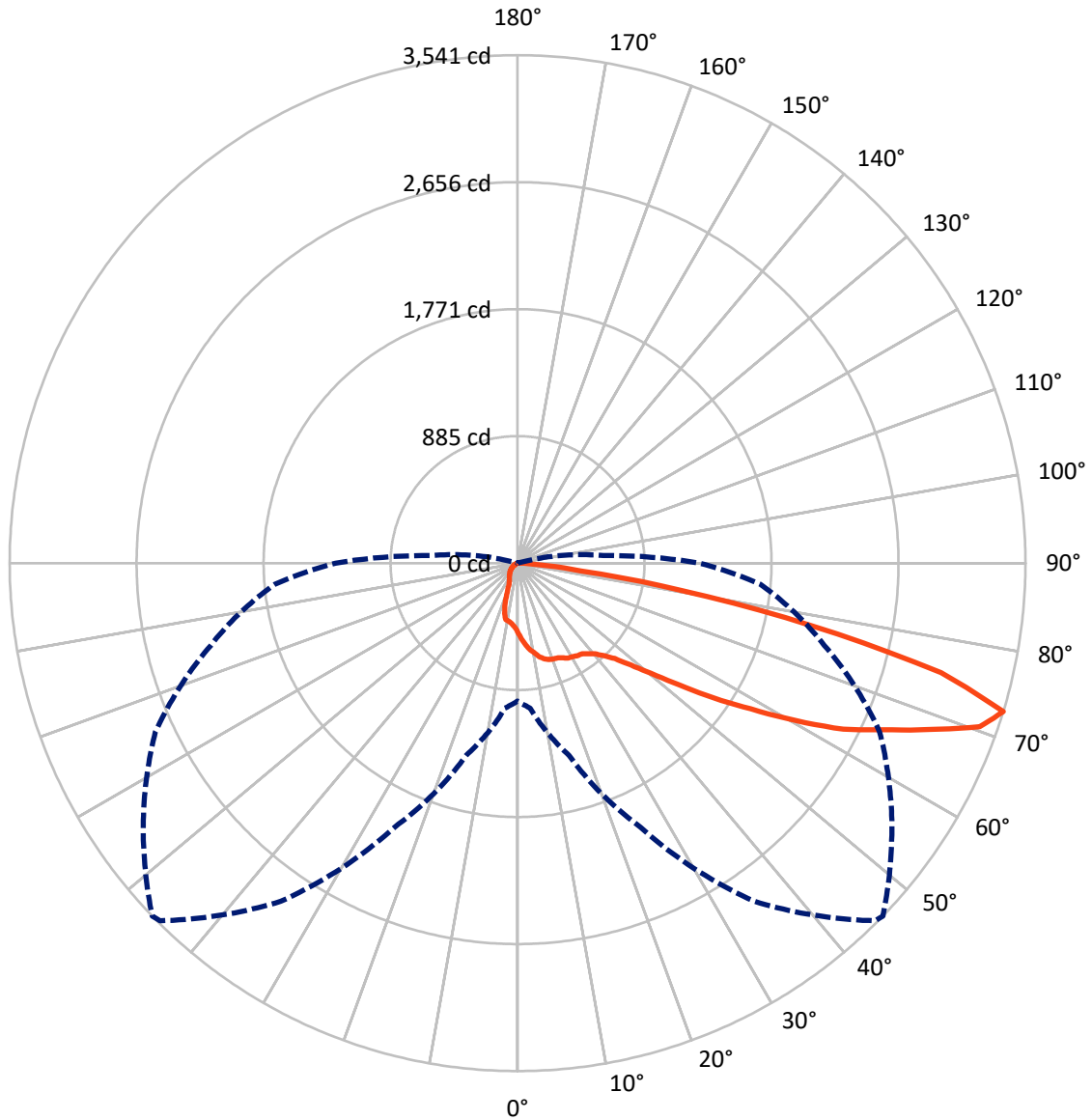
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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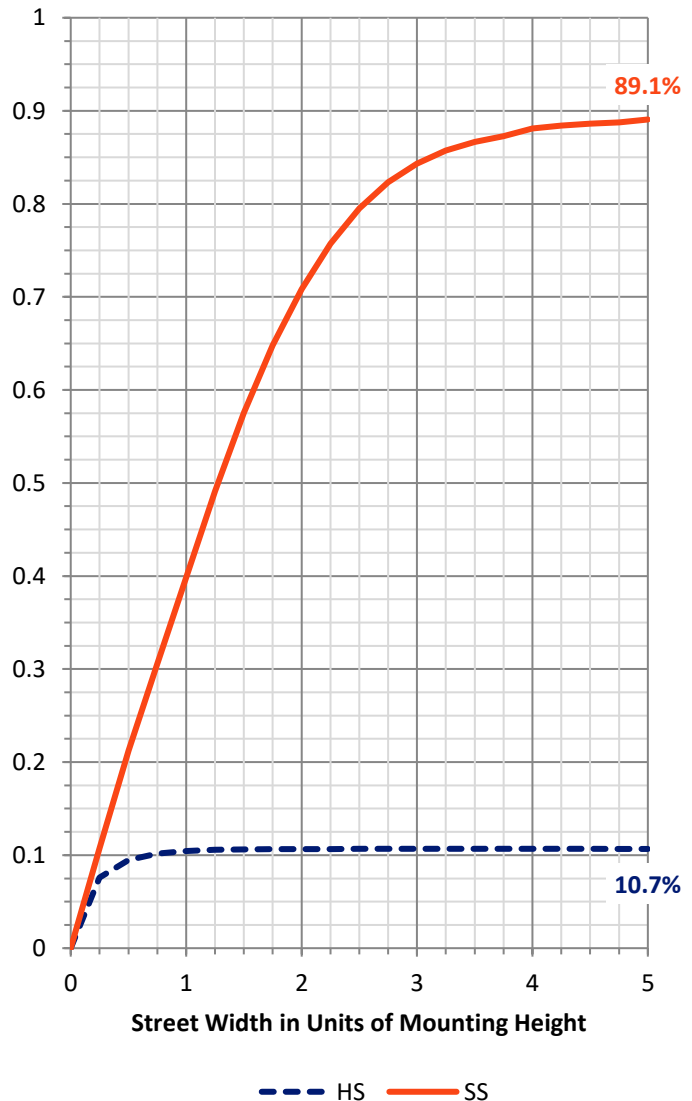
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	488.5	0.0	488.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4048.7	0.0	4048.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	4537.2	0.0	4537.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.1
10°-20°	146.5	3.2
20°-30°	229.4	5.1
30°-40°	321.2	7.1
40°-50°	529.8	11.7
50°-60°	952.2	21.0
60°-70°	1380.0	30.4
70°-80°	861.3	19.0
80°-90°	68.3	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°	4537.2	100.0
0°-180°	4537.2	100.0

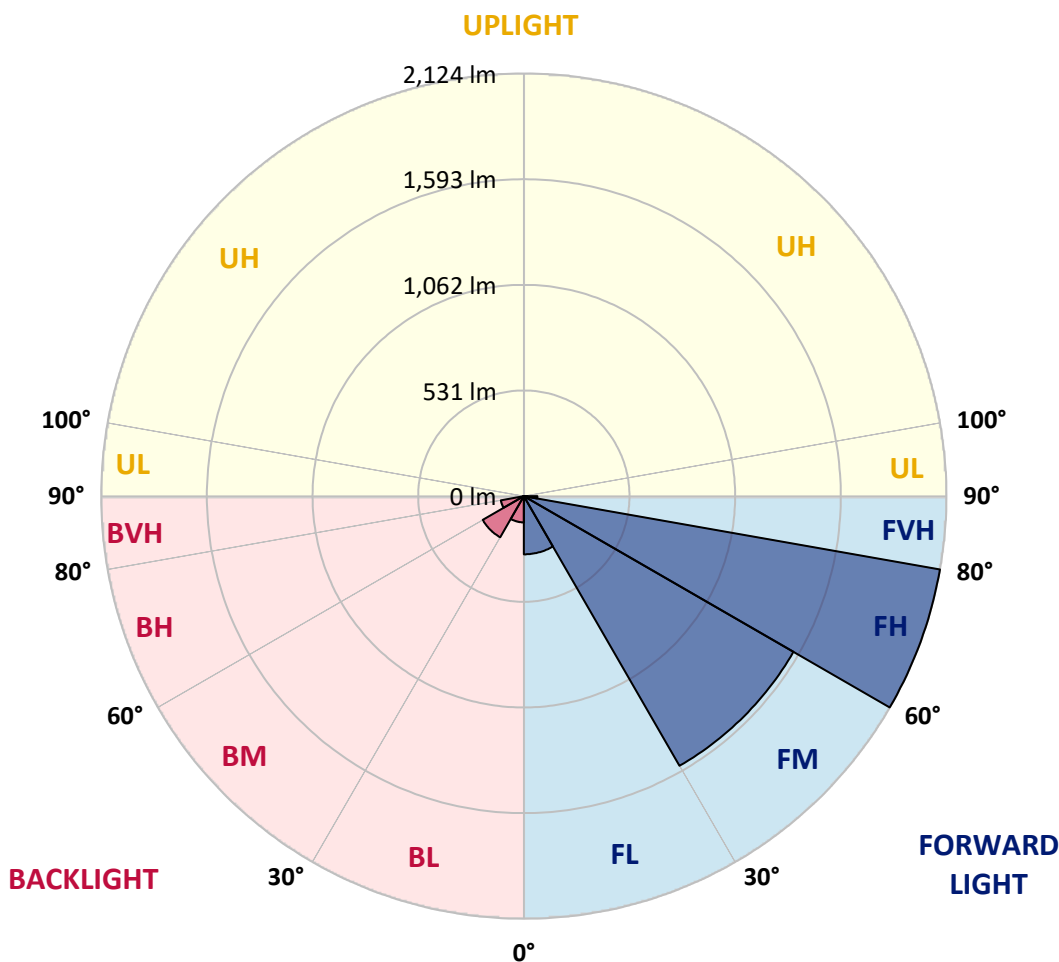


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.4	6.4			
FM (30°-60°)	1564.5	34.5			
FH (60°-80°)	2123.9	46.8			G2/5000
FVH (80°-90°)	67.9	1.5			G1/100
BL (0°-30°)	132.0	2.9	B1/500		
BM (30°-60°)	238.6	5.3	B1/1000		
BH (60°-80°)	117.5	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°	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9
2.5°	542.8	540.5	543.9	542.8	528.9	531.2	530.1	520.8	504.6	495.3	489.5
5°	605.3	611.1	606.4	596.0	587.9	571.7	569.4	554.4	528.9	512.7	495.3
7.5°	670.1	670.1	660.8	644.6	627.3	609.9	607.6	582.1	560.1	532.4	508.1
10°	718.7	712.9	706.0	688.6	668.9	645.8	634.2	615.7	591.4	557.8	526.6
12.5°	761.5	752.3	740.7	715.2	692.1	666.6	668.9	638.8	622.6	592.6	546.3
15°	785.8	777.7	767.3	744.2	708.3	696.7	692.1	673.6	644.6	614.5	570.6
17.5°	791.6	785.8	771.9	741.8	722.2	708.3	707.1	685.1	672.4	646.9	598.3
20°	780.0	769.6	759.2	739.5	721.0	716.4	712.9	712.9	696.7	663.1	615.7
22.5°	760.4	748.8	743.0	731.4	716.4	715.2	717.5	715.2	702.5	680.5	634.2
25°	745.3	739.5	730.3	726.8	717.5	734.9	731.4	728.0	724.5	699.0	663.1
27.5°	749.9	748.8	741.8	728.0	721.0	739.5	749.9	751.1	749.9	724.5	689.8
30°	752.3	746.5	739.5	736.1	738.4	756.9	756.9	782.4	771.9	746.5	716.4
32.5°	778.9	775.4	752.3	744.2	745.3	767.3	768.5	793.9	790.5	773.1	739.5
35°	835.6	812.4	778.9	755.7	755.7	784.7	775.4	812.4	821.7	793.9	755.7
37.5°	920.1	902.7	842.5	790.5	770.8	791.6	800.9	821.7	849.5	825.2	788.1
40°	1087.9	1084.4	998.8	886.5	809.0	827.5	831.0	863.4	881.9	848.3	837.9
42.5°	1333.2	1315.9	1236.0	1059.0	878.4	870.3	883.0	903.9	947.9	920.1	894.6
45°	1572.8	1564.7	1484.9	1286.9	1004.6	956.0	949.0	986.0	1050.9	1020.8	1001.1
47.5°	1746.4	1730.2	1685.1	1518.4	1189.7	1056.6	1061.3	1098.3	1180.5	1157.3	1163.1
50°	1879.5	1871.4	1823.9	1732.5	1423.5	1215.2	1205.9	1243.0	1354.1	1369.1	1385.3
52.5°	2025.3	2040.4	1976.7	1899.2	1700.1	1428.1	1407.3	1420.0	1563.5	1598.3	1643.4
55°	2165.4	2189.7	2126.0	2115.6	1989.4	1664.2	1660.8	1630.7	1815.8	1820.5	1844.8
57.5°	2256.8	2248.7	2244.1	2300.8	2278.8	1935.1	1917.7	1887.6	2055.4	2025.3	2098.2
60°	2263.7	2286.9	2364.4	2504.5	2543.8	2253.3	2227.9	2145.7	2262.6	2190.8	2329.7
62.5°	2315.8	2334.3	2477.8	2671.1	2722.0	2533.4	2550.7	2342.4	2439.6	2382.9	2586.6
65°	2183.9	2241.7	2529.9	2800.7	2955.8	2816.9	2799.6	2595.9	2621.3	2568.1	2840.1
67.5°	2064.7	2086.7	2387.6	2840.1	3141.0	3101.6	3094.7	2820.4	2808.8	2710.5	2911.8
70°	1678.1	1704.7	2002.2	2638.7	3203.5	3433.8	3417.6	3135.2	2936.1	2632.9	2543.8
72.5°	961.7	1015.0	1387.6	2032.3	2878.3	3526.4	3541.4	3186.1	2785.7	2214.0	1699.0
75°	314.8	329.8	576.3	1151.5	2152.6	3076.2	3049.6	2738.2	2247.5	1461.7	767.3
77.5°	106.5	108.8	170.1	416.6	1193.2	2078.6	2093.6	1957.0	1380.7	607.6	211.8
80°	54.4	57.9	83.3	156.2	490.7	1131.9	1156.2	1115.7	578.7	179.4	50.9
82.5°	25.5	26.6	48.6	86.8	224.5	444.4	444.4	488.4	204.8	100.7	20.8
85°	9.3	9.3	25.5	49.8	94.9	148.1	149.3	150.5	107.6	75.2	9.3
87.5°	3.5	3.5	12.7	20.8	34.7	45.1	45.1	35.9	54.4	49.8	3.5
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°	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9
2.5°	487.2	480.3	474.5	466.4	456.0	450.2	451.4	444.4	444.4	440.9	439.8
5°	487.2	480.3	465.2	451.4	442.1	430.5	424.7	420.1	420.1	417.8	419.0
7.5°	490.7	480.3	459.5	440.9	425.9	414.3	405.1	403.9	401.6	395.8	400.4
10°	511.5	496.5	461.8	436.3	419.0	406.2	390.0	385.4	378.4	368.0	369.2
12.5°	528.9	509.2	478.0	443.3	421.3	400.4	363.4	322.9	305.5	287.0	288.2
15°	554.4	526.6	483.8	452.5	421.3	354.1	287.0	234.9	207.2	193.3	193.3
17.5°	568.2	545.1	500.0	458.3	387.7	288.2	203.7	158.6	153.9	156.2	156.2
20°	597.2	565.9	518.5	462.9	332.2	204.8	149.3	144.7	147.0	151.6	150.5
22.5°	615.7	584.5	532.4	442.1	256.9	147.0	140.0	137.7	140.0	145.8	145.8
25°	630.7	611.1	554.4	391.2	181.7	133.1	130.8	133.1	135.4	137.7	141.2
27.5°	667.8	634.2	569.4	325.2	130.8	123.8	126.1	127.3	127.3	130.8	131.9
30°	692.1	665.5	581.0	251.1	115.7	114.6	116.9	118.0	119.2	122.7	123.8
32.5°	715.2	706.0	565.9	170.1	108.8	106.5	105.3	106.5	111.1	114.6	113.4
35°	748.8	743.0	543.9	118.0	101.8	97.2	94.9	96.1	99.5	103.0	101.8
37.5°	789.3	795.1	490.7	103.0	94.9	89.1	84.5	84.5	85.6	89.1	90.3
40°	836.7	851.8	428.2	96.1	90.3	83.3	78.7	72.9	71.8	70.6	71.8
42.5°	923.5	940.9	357.6	91.4	83.3	75.2	68.3	61.3	55.6	52.1	52.1
45°	1045.1	1031.2	265.0	86.8	79.9	68.3	57.9	49.8	41.7	38.2	38.2
47.5°	1212.9	1165.4	181.7	82.2	74.1	60.2	48.6	38.2	31.2	27.8	27.8
50°	1445.5	1289.3	118.0	77.5	70.6	52.1	39.3	27.8	23.1	22.0	23.1
52.5°	1665.4	1415.4	93.7	71.8	63.7	45.1	30.1	23.1	20.8	19.7	19.7
55°	1867.9	1479.1	83.3	66.0	57.9	37.0	25.5	19.7	18.5	17.4	17.4
57.5°	2039.2	1501.1	71.8	57.9	46.3	28.9	20.8	17.4	15.0	13.9	13.9
60°	2187.3	1506.8	55.6	46.3	33.6	22.0	17.4	15.0	12.7	10.4	10.4
62.5°	2305.4	1466.3	39.3	32.4	23.1	17.4	15.0	10.4	6.9	4.6	3.5
65°	2399.1	1385.3	26.6	22.0	15.0	12.7	9.3	4.6	1.2	0.0	0.0
67.5°	2289.2	1201.3	20.8	16.2	10.4	8.1	4.6	1.2	0.0	0.0	0.0
70°	1866.8	931.6	15.0	10.4	6.9	2.3	1.2	0.0	0.0	0.0	0.0
72.5°	1270.7	600.7	11.6	6.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	570.6	215.3	8.1	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	138.9	50.9	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.0	12.7	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.9	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.2	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)