

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: P676746

Luminaire Tested: **CCW-SA-2B-827-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676746
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-827-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) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

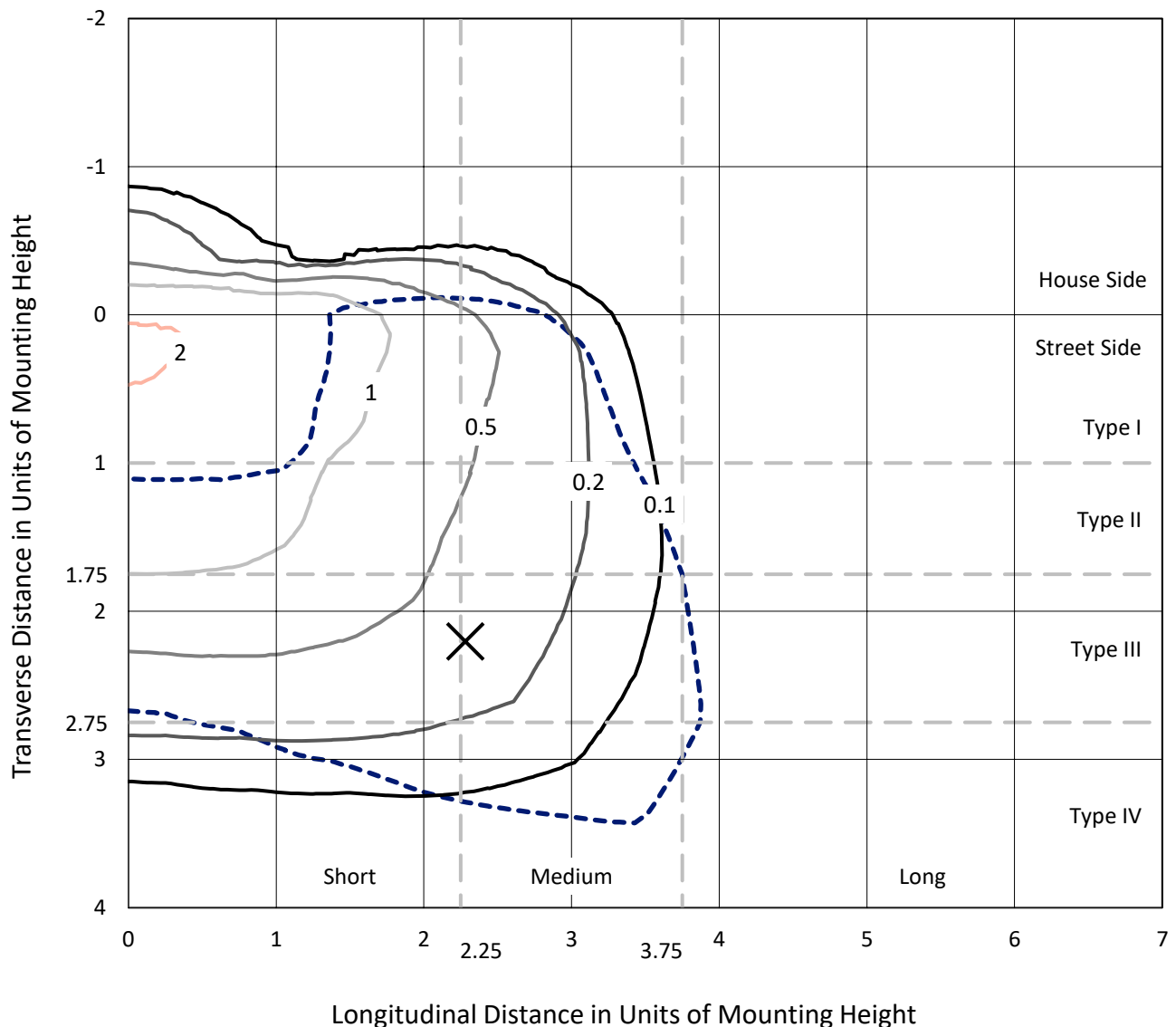
Lumens per Lamp: N/A
Luminaire Lumens: 3662.8 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

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

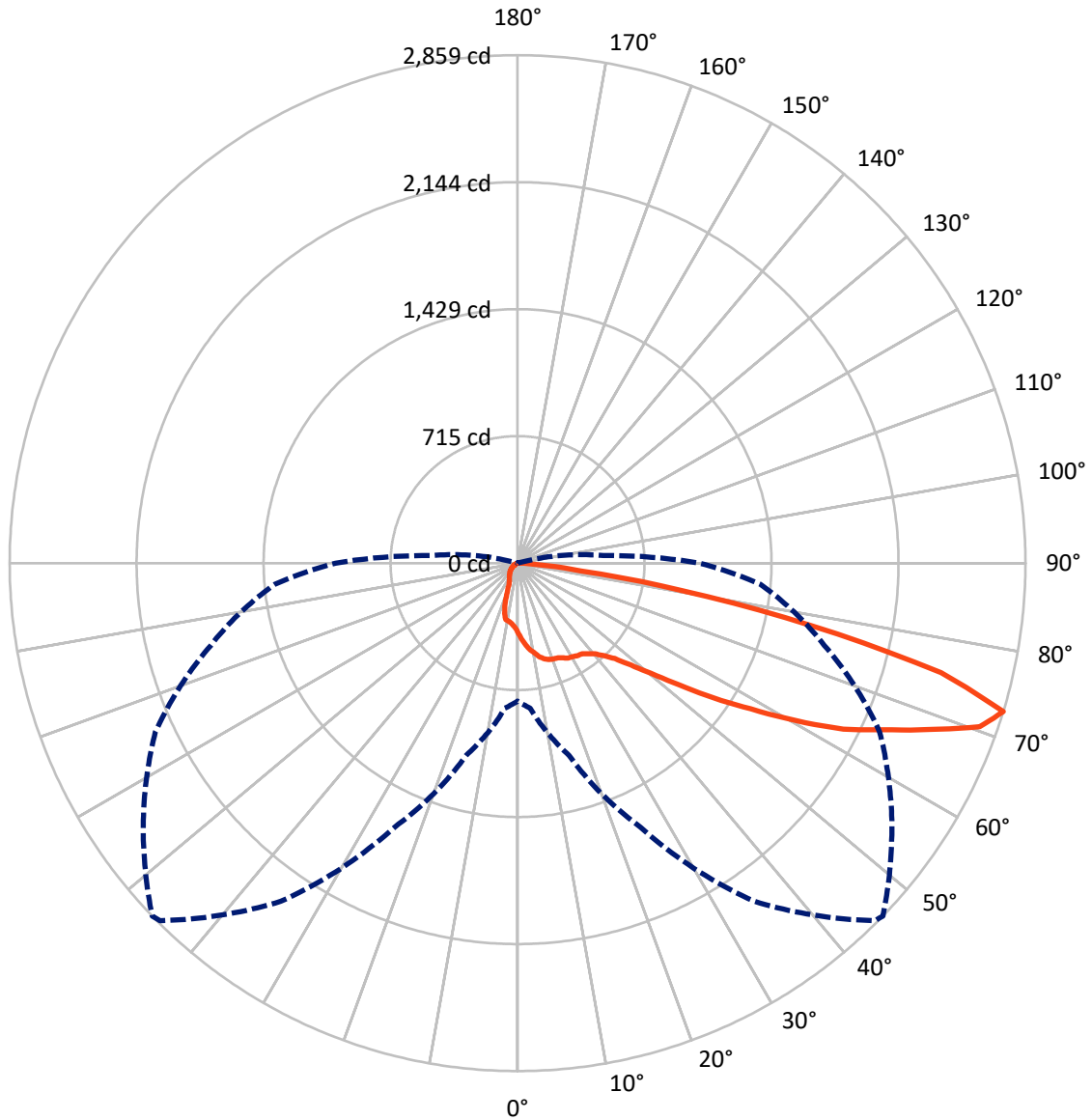
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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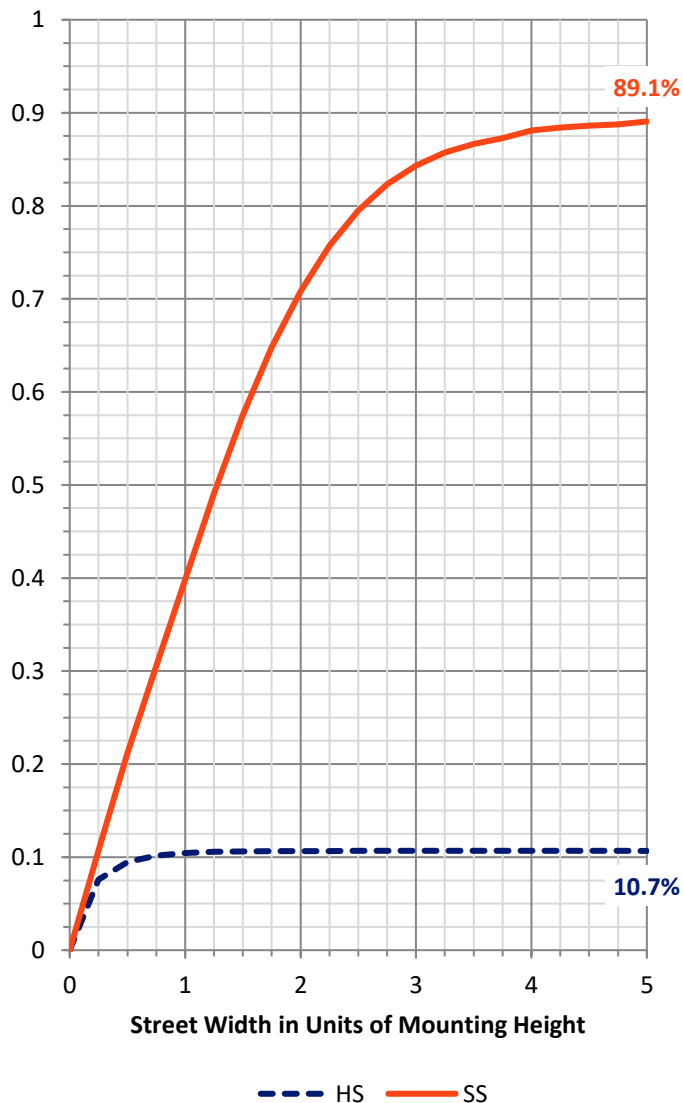
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.3	0.0	394.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3268.4	0.0	3268.4
	% Fixture	89.2	0.0	89.2
Total	Lumens	3662.8	0.0	3662.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.1
10°-20°	118.3	3.2
20°-30°	185.2	5.1
30°-40°	259.3	7.1
40°-50°	427.7	11.7
50°-60°	768.7	21.0
60°-70°	1114.1	30.4
70°-80°	695.3	19.0
80°-90°	55.1	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°	3662.8	100.0
0°-180°	3662.8	100.0



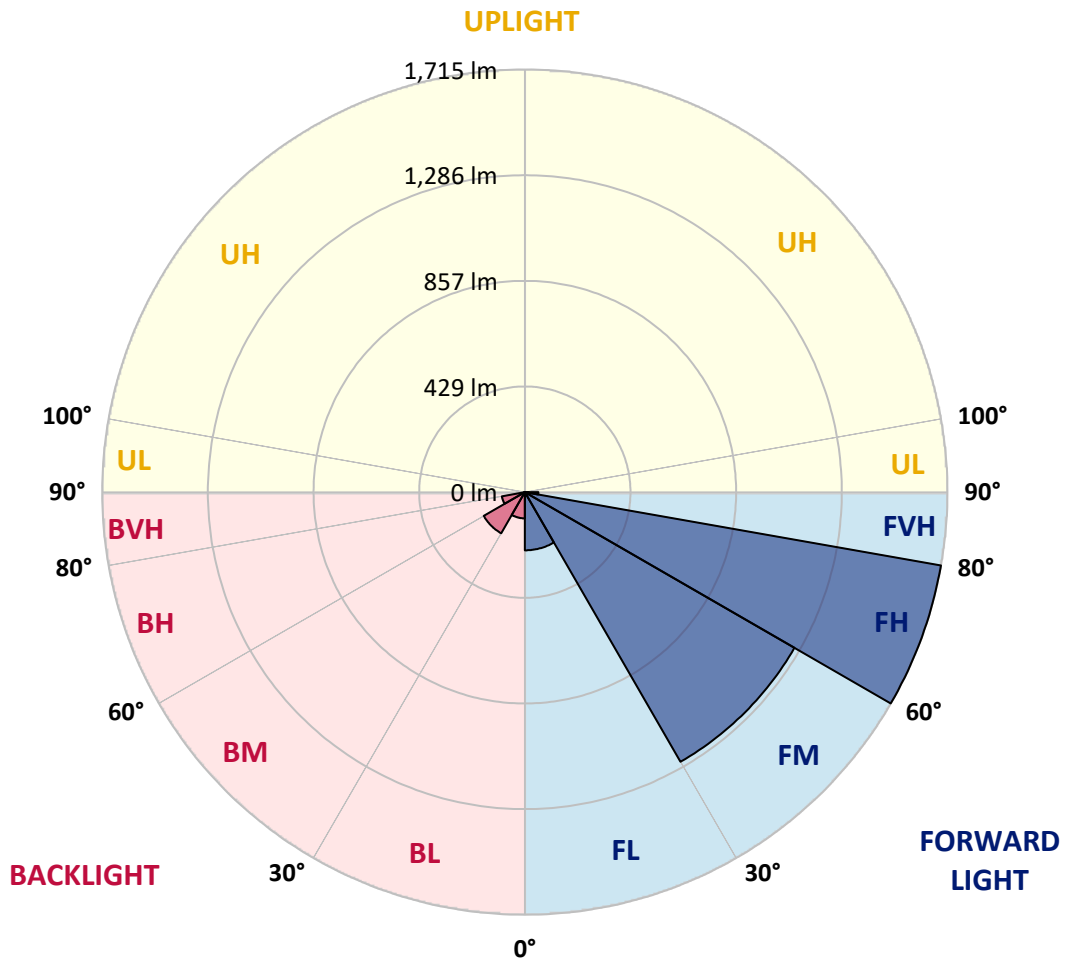
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.1	6.4			
FM (30°-60°)	1263.0	34.5			
FH (60°-80°)	1714.5	46.8			G1/1800
FVH (80°-90°)	54.8	1.5			G1/100
BL (0°-30°)	106.6	2.9	B0/110		
BM (30°-60°)	192.6	5.3	B0/220		
BH (60°-80°)	94.8	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°	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5
2.5°	438.2	436.3	439.1	438.2	427.0	428.8	427.9	420.4	407.3	399.9	395.2
5°	488.6	493.3	489.6	481.2	474.6	461.5	459.7	447.5	427.0	413.9	399.9
7.5°	540.9	540.9	533.5	520.4	506.4	492.4	490.5	469.9	452.2	429.8	410.1
10°	580.2	575.5	569.9	555.9	540.0	521.3	512.0	497.0	477.4	450.3	425.1
12.5°	614.8	607.3	597.9	577.4	558.7	538.1	540.0	515.7	502.6	478.3	441.0
15°	634.4	627.8	619.4	600.7	571.8	562.4	558.7	543.7	520.4	496.1	460.6
17.5°	639.0	634.4	623.2	598.9	583.0	571.8	570.8	553.1	542.8	522.3	483.0
20°	629.7	621.3	612.9	597.0	582.1	578.3	575.5	575.5	562.4	535.3	497.0
22.5°	613.8	604.5	599.8	590.5	578.3	577.4	579.3	577.4	567.1	549.4	512.0
25°	601.7	597.0	589.5	586.7	579.3	593.3	590.5	587.7	584.9	564.3	535.3
27.5°	605.4	604.5	598.9	587.7	582.1	597.0	605.4	606.3	605.4	584.9	556.8
30°	607.3	602.6	597.0	594.2	596.1	611.0	611.0	631.6	623.2	602.6	578.3
32.5°	628.8	626.0	607.3	600.7	601.7	619.4	620.4	640.9	638.1	624.1	597.0
35°	674.5	655.9	628.8	610.1	610.1	633.4	626.0	655.9	663.3	640.9	610.1
37.5°	742.7	728.7	680.2	638.1	622.2	639.0	646.5	663.3	685.8	666.1	636.2
40°	878.2	875.4	806.3	715.7	653.1	668.0	670.8	697.0	711.9	684.8	676.4
42.5°	1076.3	1062.3	997.8	854.9	709.1	702.6	712.9	729.7	765.2	742.7	722.2
45°	1269.7	1263.1	1198.7	1038.9	811.0	771.7	766.1	796.0	848.3	824.0	808.1
47.5°	1409.8	1396.7	1360.3	1225.8	960.4	853.0	856.7	886.6	953.0	934.3	938.9
50°	1517.3	1510.7	1472.4	1398.6	1149.2	981.0	973.5	1003.4	1093.1	1105.2	1118.3
52.5°	1635.0	1647.1	1595.7	1533.1	1372.5	1152.9	1136.1	1146.4	1262.2	1290.2	1326.7
55°	1748.0	1767.6	1716.3	1707.9	1606.0	1343.5	1340.7	1316.4	1465.9	1469.6	1489.2
57.5°	1821.8	1815.3	1811.6	1857.3	1839.6	1562.1	1548.1	1523.8	1659.3	1635.0	1693.8
60°	1827.4	1846.1	1908.7	2021.8	2053.5	1819.0	1798.5	1732.1	1826.5	1768.6	1880.7
62.5°	1869.5	1884.4	2000.3	2156.3	2197.4	2045.1	2059.1	1891.0	1969.5	1923.7	2088.1
65°	1763.0	1809.7	2042.3	2260.9	2386.1	2274.0	2260.0	2095.6	2116.1	2073.2	2292.7
67.5°	1666.7	1684.5	1927.4	2292.7	2535.6	2503.9	2498.3	2276.8	2267.5	2188.1	2350.6
70°	1354.7	1376.2	1616.3	2130.1	2586.1	2772.0	2758.9	2531.0	2370.3	2125.5	2053.5
72.5°	776.4	819.4	1120.2	1640.6	2323.5	2846.7	2858.9	2572.1	2248.8	1787.3	1371.5
75°	254.1	266.3	465.3	929.6	1737.8	2483.3	2461.8	2210.5	1814.4	1180.0	619.4
77.5°	86.0	87.8	137.3	336.3	963.2	1678.0	1690.1	1579.9	1114.6	490.5	171.0
80°	43.9	46.7	67.3	126.1	396.1	913.7	933.3	900.6	467.1	144.8	41.1
82.5°	20.6	21.5	39.2	70.1	181.2	358.8	358.8	394.3	165.4	81.3	16.8
85°	7.5	7.5	20.6	40.2	76.6	119.6	120.5	121.5	86.9	60.7	7.5
87.5°	2.8	2.8	10.3	16.8	28.0	36.4	36.4	29.0	43.9	40.2	2.8
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°	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5
2.5°	393.3	387.7	383.1	376.5	368.1	363.4	364.4	358.8	358.8	356.0	355.0
5°	393.3	387.7	375.6	364.4	356.9	347.6	342.9	339.1	339.1	337.3	338.2
7.5°	396.1	387.7	370.9	356.0	343.8	334.5	327.0	326.1	324.2	319.5	323.3
10°	412.9	400.8	372.8	352.2	338.2	327.9	314.9	311.1	305.5	297.1	298.0
12.5°	427.0	411.1	385.9	357.8	340.1	323.3	293.4	260.7	246.6	231.7	232.6
15°	447.5	425.1	390.5	365.3	340.1	285.9	231.7	189.7	167.2	156.0	156.0
17.5°	458.7	440.0	403.6	370.0	313.0	232.6	164.4	128.0	124.3	126.1	126.1
20°	482.1	456.9	418.6	373.7	268.1	165.4	120.5	116.8	118.7	122.4	121.5
22.5°	497.0	471.8	429.8	356.9	207.4	118.7	113.0	111.2	113.0	117.7	117.7
25°	509.2	493.3	447.5	315.8	146.7	107.4	105.6	107.4	109.3	111.2	114.0
27.5°	539.1	512.0	459.7	262.5	105.6	100.0	101.8	102.8	102.8	105.6	106.5
30°	558.7	537.2	469.0	202.7	93.4	92.5	94.4	95.3	96.2	99.0	100.0
32.5°	577.4	569.9	456.9	137.3	87.8	86.0	85.0	86.0	89.7	92.5	91.6
35°	604.5	599.8	439.1	95.3	82.2	78.5	76.6	77.5	80.3	83.2	82.2
37.5°	637.2	641.8	396.1	83.2	76.6	71.9	68.2	68.2	69.1	71.9	72.9
40°	675.5	687.6	345.7	77.5	72.9	67.3	63.5	58.9	57.9	57.0	57.9
42.5°	745.6	759.6	288.7	73.8	67.3	60.7	55.1	49.5	44.8	42.0	42.0
45°	843.7	832.4	213.9	70.1	64.5	55.1	46.7	40.2	33.6	30.8	30.8
47.5°	979.1	940.8	146.7	66.3	59.8	48.6	39.2	30.8	25.2	22.4	22.4
50°	1166.9	1040.8	95.3	62.6	57.0	42.0	31.8	22.4	18.7	17.8	18.7
52.5°	1344.4	1142.6	75.7	57.9	51.4	36.4	24.3	18.7	16.8	15.9	15.9
55°	1507.9	1194.0	67.3	53.3	46.7	29.9	20.6	15.9	14.9	14.0	14.0
57.5°	1646.2	1211.8	57.9	46.7	37.4	23.4	16.8	14.0	12.1	11.2	11.2
60°	1765.8	1216.4	44.8	37.4	27.1	17.8	14.0	12.1	10.3	8.4	8.4
62.5°	1861.1	1183.7	31.8	26.2	18.7	14.0	12.1	8.4	5.6	3.7	2.8
65°	1936.8	1118.3	21.5	17.8	12.1	10.3	7.5	3.7	0.9	0.0	0.0
67.5°	1848.0	969.8	16.8	13.1	8.4	6.5	3.7	0.9	0.0	0.0	0.0
70°	1507.0	752.1	12.1	8.4	5.6	1.9	0.9	0.0	0.0	0.0	0.0
72.5°	1025.8	484.9	9.3	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	460.6	173.8	6.5	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	112.1	41.1	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.9	10.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.2	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)