

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: P676755

Luminaire Tested: **CCW-SA-1F-830-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676755
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

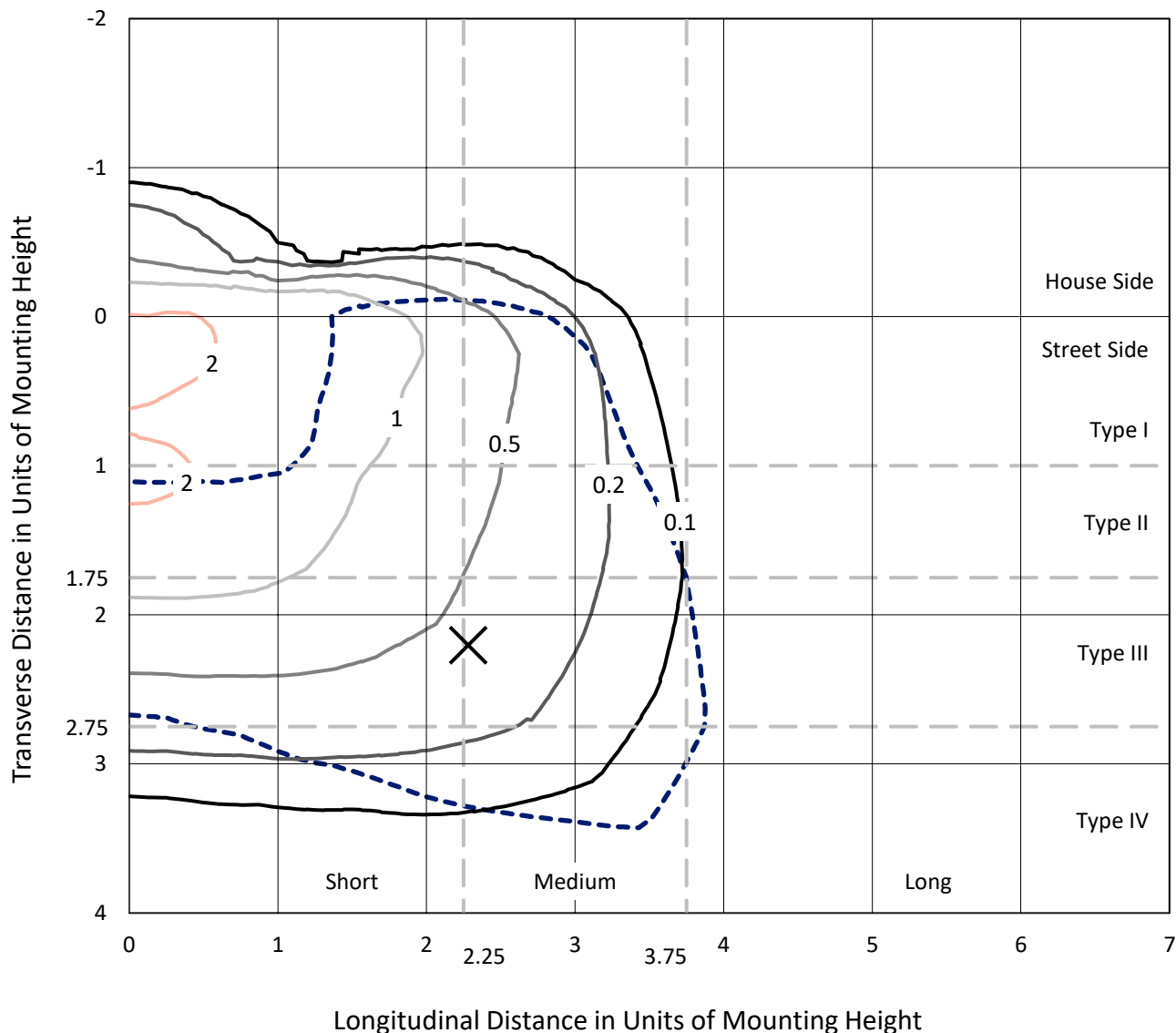
Lumens per Lamp: N/A
Luminaire Lumens: 4298.3 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

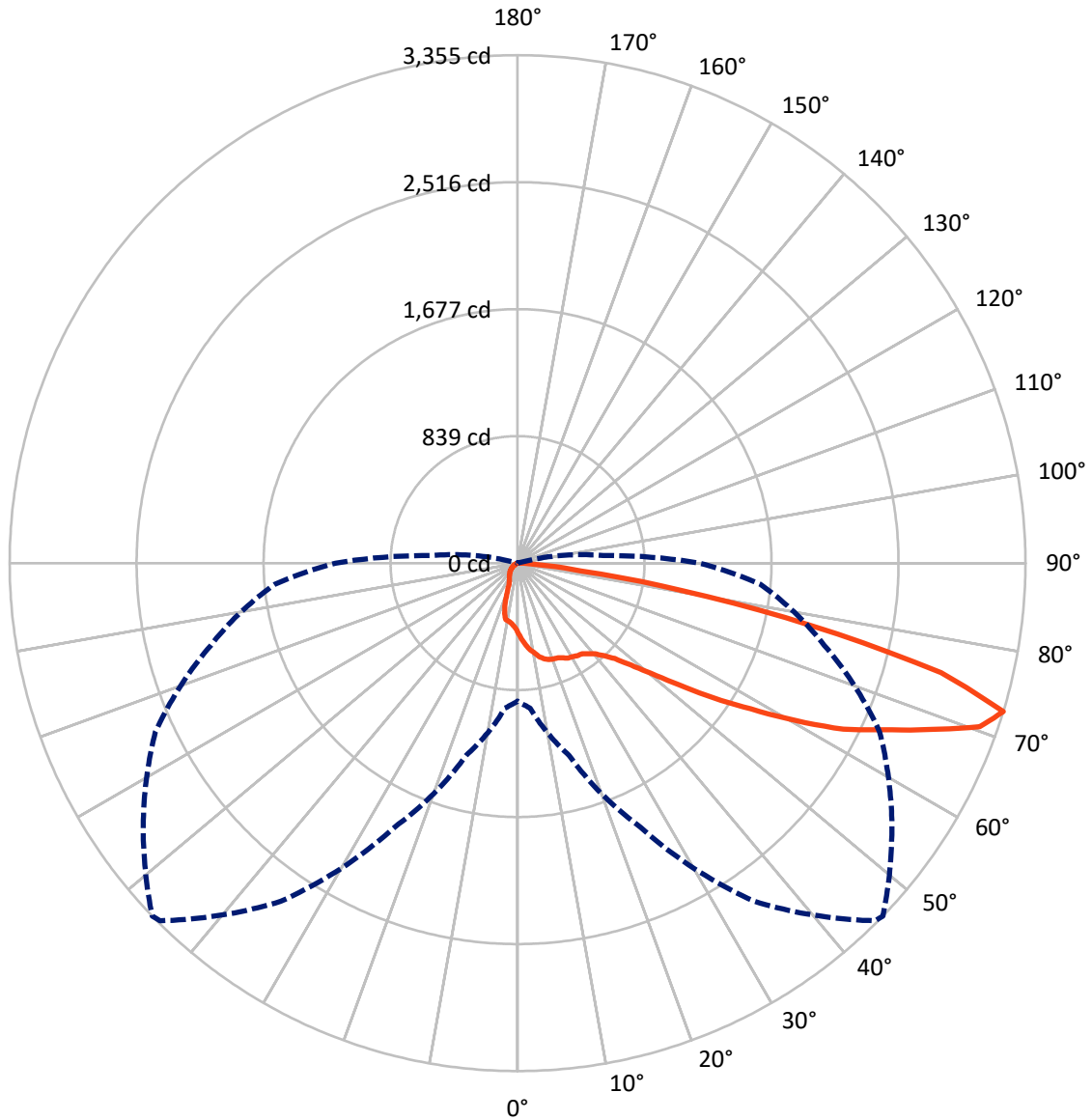
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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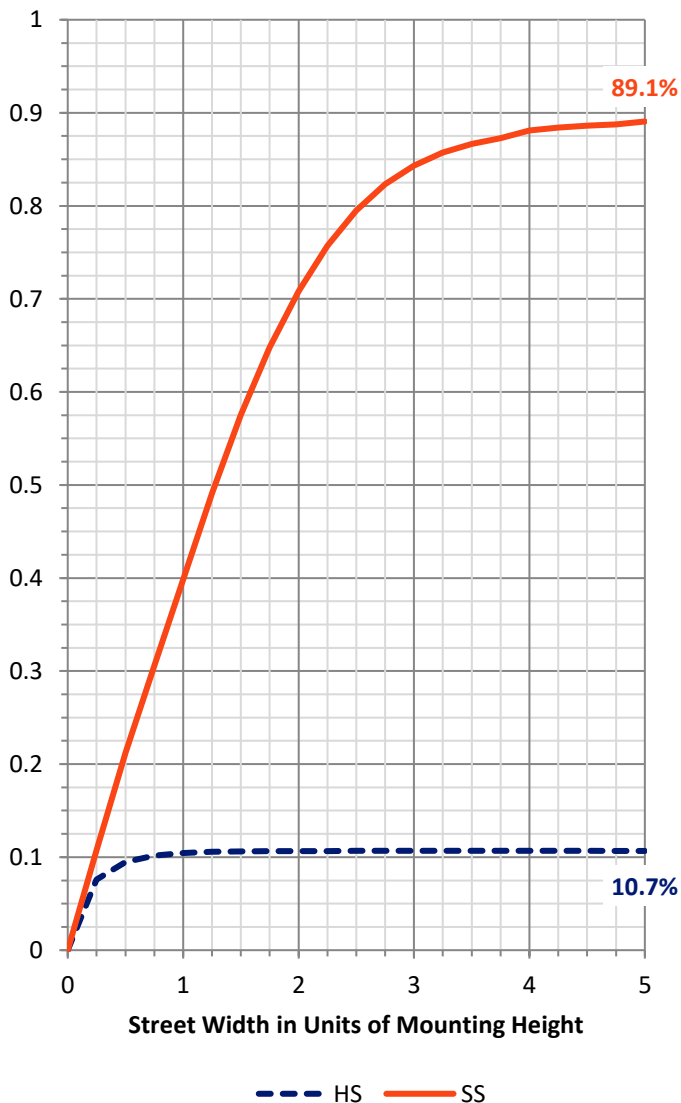
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.8	0.0	462.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3835.6	0.0	3835.6
	% Fixture	89.2	0.0	89.2
Total	Lumens	4298.3	0.0	4298.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.1
10°-20°	138.8	3.2
20°-30°	217.3	5.1
30°-40°	304.3	7.1
40°-50°	501.9	11.7
50°-60°	902.0	21.0
60°-70°	1307.4	30.4
70°-80°	815.9	19.0
80°-90°	64.7	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°	4298.3	100.0
0°-180°	4298.3	100.0

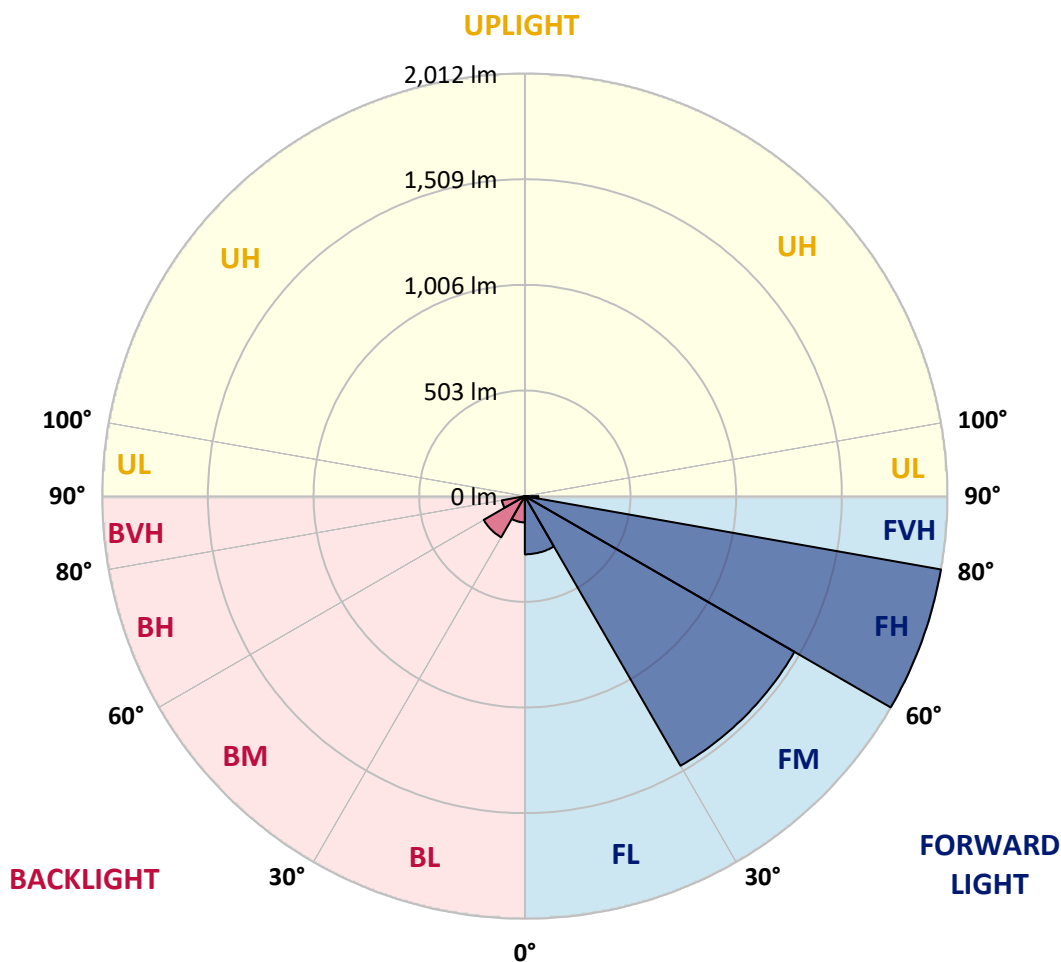


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.1	6.4			
FM (30°-60°)	1482.2	34.5			
FH (60°-80°)	2012.0	46.8			G2/5000
FVH (80°-90°)	64.3	1.5			G1/100
BL (0°-30°)	125.1	2.9	B1/500		
BM (30°-60°)	226.1	5.3	B1/1000		
BH (60°-80°)	111.3	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°	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4
2.5°	514.2	512.0	515.3	514.2	501.0	503.2	502.1	493.4	478.0	469.3	463.8
5°	573.4	578.9	574.5	564.6	557.0	541.6	539.4	525.2	501.0	485.7	469.3
7.5°	634.8	634.8	626.0	610.7	594.2	577.8	575.6	551.5	530.7	504.3	481.3
10°	680.9	675.4	668.8	652.4	633.7	611.8	600.8	583.3	560.3	528.5	498.9
12.5°	721.4	712.7	701.7	677.6	655.6	631.5	633.7	605.2	589.9	561.4	517.5
15°	744.4	736.8	726.9	705.0	671.0	660.0	655.6	638.1	610.7	582.2	540.5
17.5°	749.9	744.4	731.3	702.8	684.1	671.0	669.9	649.1	637.0	612.9	566.8
20°	739.0	729.1	719.2	700.6	683.0	678.7	675.4	675.4	660.0	628.2	583.3
22.5°	720.3	709.4	703.9	692.9	678.7	677.6	679.8	677.6	665.5	644.7	600.8
25°	706.1	700.6	691.8	688.5	679.8	696.2	692.9	689.6	686.3	662.2	628.2
27.5°	710.5	709.4	702.8	689.6	683.0	700.6	710.5	711.6	710.5	686.3	653.4
30°	712.7	707.2	700.6	697.3	699.5	717.0	717.0	741.2	731.3	707.2	678.7
32.5°	737.9	734.6	712.7	705.0	706.1	726.9	728.0	752.1	748.8	732.4	700.6
35°	791.6	769.7	737.9	715.9	715.9	743.4	734.6	769.7	778.4	752.1	715.9
37.5°	871.6	855.2	798.2	748.8	730.2	749.9	758.7	778.4	804.7	781.7	746.6
40°	1030.6	1027.3	946.2	839.8	766.4	783.9	787.2	817.9	835.4	803.7	793.8
42.5°	1263.0	1246.6	1170.9	1003.2	832.2	824.5	836.5	856.3	897.9	871.6	847.5
45°	1490.0	1482.3	1406.7	1219.2	951.7	905.6	899.0	934.1	995.5	967.0	948.4
47.5°	1654.5	1639.1	1596.3	1438.5	1127.1	1001.0	1005.4	1040.5	1118.3	1096.4	1101.9
50°	1780.5	1772.9	1727.9	1641.3	1348.6	1151.2	1142.4	1177.5	1282.8	1297.0	1312.4
52.5°	1918.7	1932.9	1872.6	1799.2	1610.6	1352.9	1333.2	1345.3	1481.2	1514.1	1556.9
55°	2051.3	2074.4	2014.1	2004.2	1884.7	1576.6	1573.3	1544.8	1720.2	1724.6	1747.6
57.5°	2138.0	2130.3	2125.9	2179.6	2158.8	1833.2	1816.7	1788.2	1947.2	1918.7	1987.8
60°	2144.5	2166.5	2239.9	2372.6	2409.9	2134.7	2110.5	2032.7	2143.4	2075.5	2207.0
62.5°	2193.9	2211.4	2347.4	2530.5	2578.7	2400.0	2416.4	2219.1	2311.2	2257.5	2450.4
65°	2068.9	2123.7	2396.7	2653.3	2800.2	2668.6	2652.2	2459.2	2483.3	2432.9	2690.5
67.5°	1956.0	1976.8	2261.8	2690.5	2975.6	2938.3	2931.7	2671.9	2660.9	2567.7	2758.5
70°	1589.8	1615.0	1896.8	2499.8	3034.8	3253.0	3237.6	2970.1	2781.5	2494.3	2409.9
72.5°	911.1	961.5	1314.6	1925.3	2726.7	3340.7	3354.9	3018.4	2639.0	2097.4	1609.5
75°	298.2	312.5	546.0	1090.9	2039.3	2914.2	2889.0	2594.1	2129.2	1384.7	726.9
77.5°	100.9	103.1	161.2	394.7	1130.4	1969.1	1983.4	1854.0	1308.0	575.6	200.6
80°	51.5	54.8	78.9	148.0	464.9	1072.3	1095.3	1056.9	548.2	169.9	48.2
82.5°	24.1	25.2	46.0	82.2	212.7	421.0	421.0	462.7	194.1	95.4	19.7
85°	8.8	8.8	24.1	47.1	89.9	140.3	141.4	142.5	102.0	71.3	8.8
87.5°	3.3	3.3	12.1	19.7	32.9	42.8	42.8	34.0	51.5	47.1	3.3
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°	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4
2.5°	461.6	455.0	449.5	441.8	432.0	426.5	427.6	421.0	421.0	417.7	416.6
5°	461.6	455.0	440.7	427.6	418.8	407.9	402.4	398.0	398.0	395.8	396.9
7.5°	464.9	455.0	435.3	417.7	403.5	392.5	383.7	382.6	380.4	375.0	379.4
10°	484.6	470.4	437.5	413.3	396.9	384.8	369.5	365.1	358.5	348.7	349.7
12.5°	501.0	482.4	452.8	419.9	399.1	379.4	344.3	305.9	289.4	271.9	273.0
15°	525.2	498.9	458.3	428.7	399.1	335.5	271.9	222.6	196.3	183.1	183.1
17.5°	538.3	516.4	473.6	434.2	367.3	273.0	193.0	150.2	145.8	148.0	148.0
20°	565.7	536.1	491.2	438.6	314.7	194.1	141.4	137.0	139.2	143.6	142.5
22.5°	583.3	553.7	504.3	418.8	243.4	139.2	132.7	130.5	132.7	138.1	138.1
25°	597.5	578.9	525.2	370.6	172.1	126.1	123.9	126.1	128.3	130.5	133.8
27.5°	632.6	600.8	539.4	308.1	123.9	117.3	119.5	120.6	120.6	123.9	125.0
30°	655.6	630.4	550.4	237.9	109.6	108.5	110.7	111.8	112.9	116.2	117.3
32.5°	677.6	668.8	536.1	161.2	103.1	100.9	99.8	100.9	105.3	108.5	107.4
35°	709.4	703.9	515.3	111.8	96.5	92.1	89.9	91.0	94.3	97.6	96.5
37.5°	747.7	753.2	464.9	97.6	89.9	84.4	80.0	80.0	81.1	84.4	85.5
40°	792.7	806.9	405.7	91.0	85.5	78.9	74.6	69.1	68.0	66.9	68.0
42.5°	874.9	891.4	338.8	86.6	78.9	71.3	64.7	58.1	52.6	49.3	49.3
45°	990.0	976.9	251.1	82.2	75.7	64.7	54.8	47.1	39.5	36.2	36.2
47.5°	1149.0	1104.1	172.1	77.8	70.2	57.0	46.0	36.2	29.6	26.3	26.3
50°	1369.4	1221.4	111.8	73.5	66.9	49.3	37.3	26.3	21.9	20.8	21.9
52.5°	1577.7	1340.9	88.8	68.0	60.3	42.8	28.5	21.9	19.7	18.6	18.6
55°	1769.6	1401.2	78.9	62.5	54.8	35.1	24.1	18.6	17.5	16.4	16.4
57.5°	1931.8	1422.0	68.0	54.8	43.9	27.4	19.7	16.4	14.3	13.2	13.2
60°	2072.2	1427.5	52.6	43.9	31.8	20.8	16.4	14.3	12.1	9.9	9.9
62.5°	2184.0	1389.1	37.3	30.7	21.9	16.4	14.3	9.9	6.6	4.4	3.3
65°	2272.8	1312.4	25.2	20.8	14.3	12.1	8.8	4.4	1.1	0.0	0.0
67.5°	2168.7	1138.1	19.7	15.3	9.9	7.7	4.4	1.1	0.0	0.0	0.0
70°	1768.5	882.6	14.3	9.9	6.6	2.2	1.1	0.0	0.0	0.0	0.0
72.5°	1203.8	569.0	11.0	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	540.5	203.9	7.7	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	131.6	48.2	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.1	12.1	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)