

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: P675312

Luminaire Tested: **CCW-SA-1C-830-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675312
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T4W distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

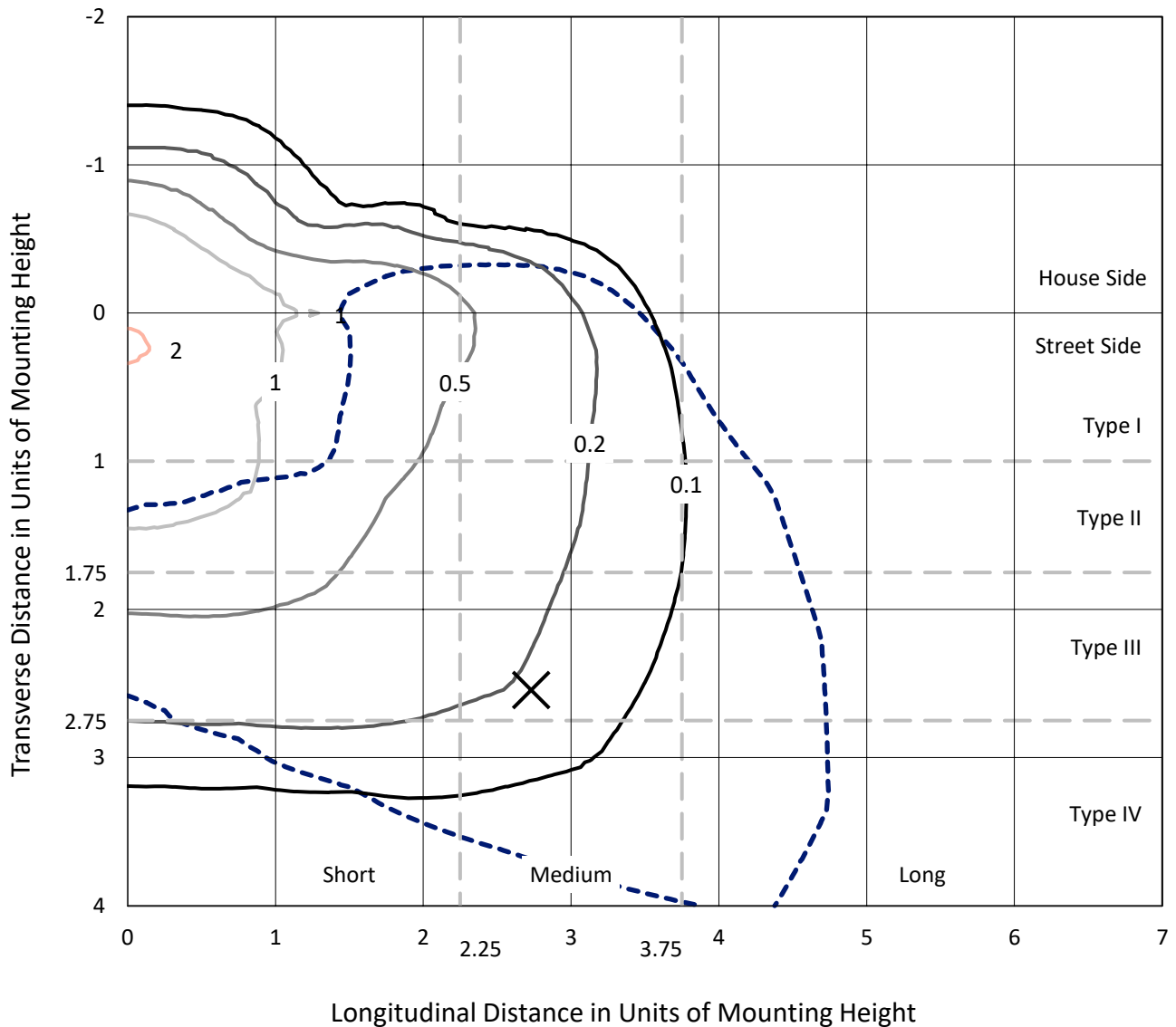
Lumens per Lamp: N/A
Luminaire Lumens: 3624.3 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

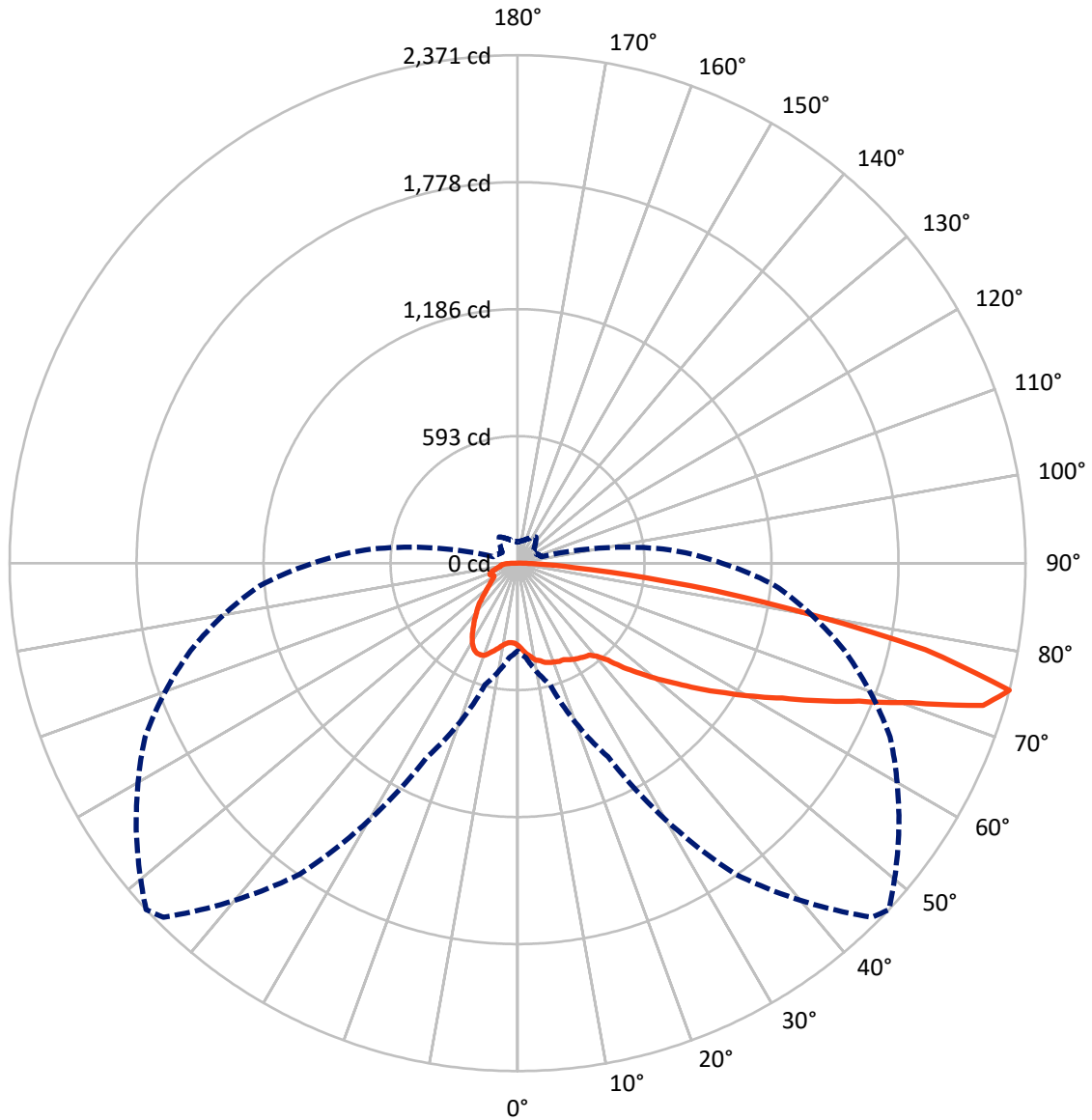
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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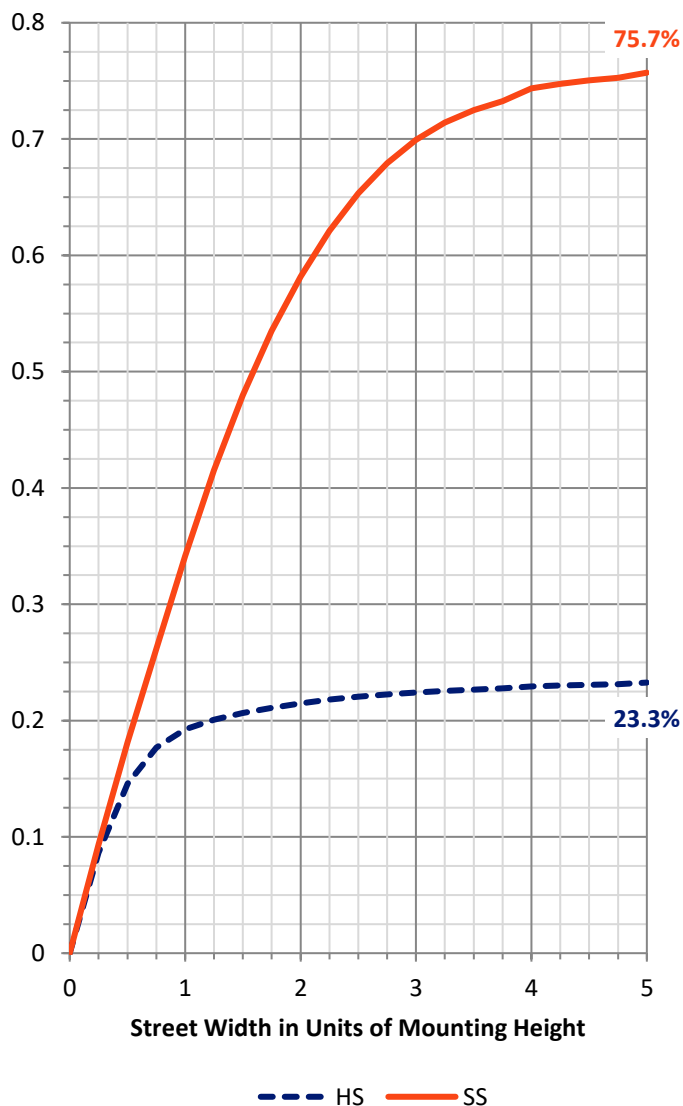
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.8	0.0	866.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2757.6	0.0	2757.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	3624.3	0.0	3624.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	1.1
10°-20°	129.2	3.6
20°-30°	221.3	6.1
30°-40°	309.6	8.5
40°-50°	431.7	11.9
50°-60°	645.3	17.8
60°-70°	930.3	25.7
70°-80°	791.9	21.8
80°-90°	126.2	3.5
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°	3624.3	100.0
0°-180°	3624.3	100.0

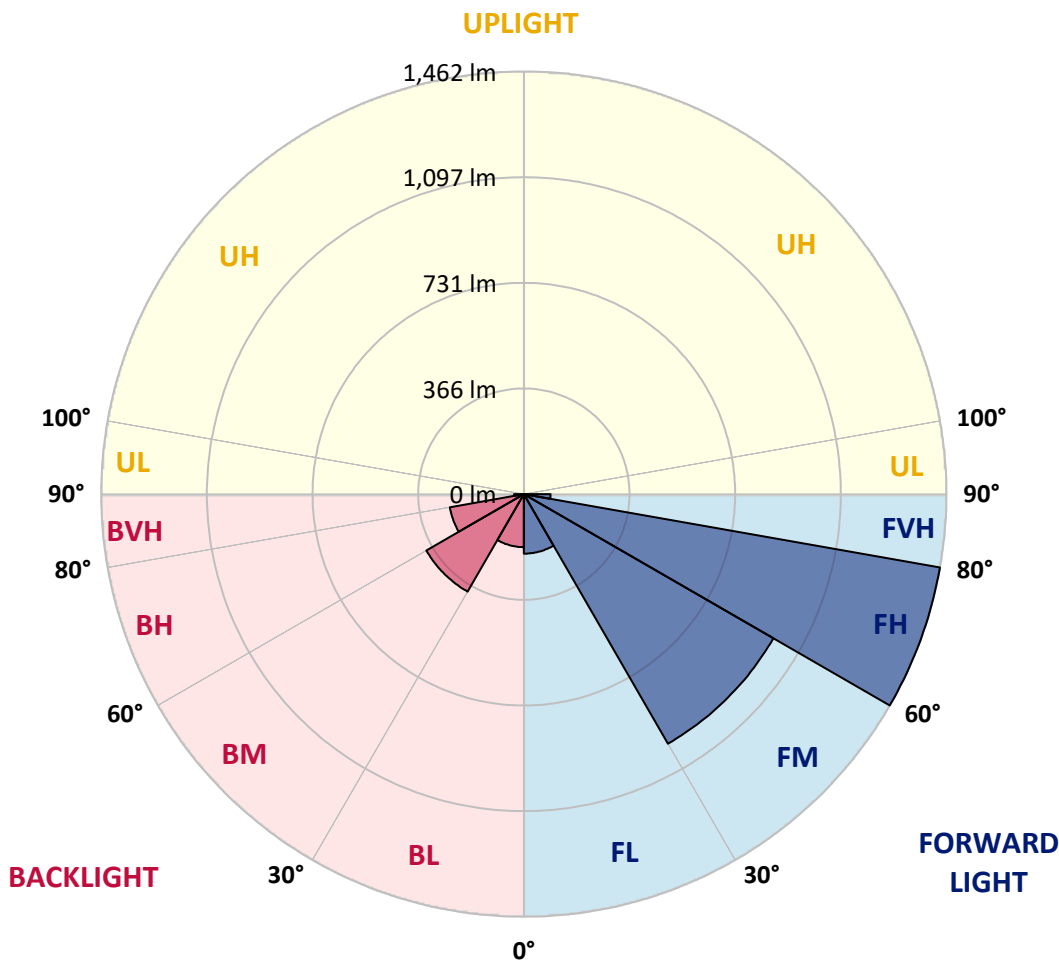


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.9	5.7			
FM (30°-60°)	997.0	27.5			
FH (60°-80°)	1462.2	40.3			G1/1800
FVH (80°-90°)	92.4	2.6			G1/100
BL (0°-30°)	183.5	5.1	B1/500		
BM (30°-60°)	389.6	10.7	B1/1000		
BH (60°-80°)	260.0	7.2	B1/500		G1/500
BVH (80°-90°)	33.7	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	412.6	413.9	413.9	411.3	408.6	403.3	403.3	398.0	395.4	388.8	386.1
5°	450.9	447.0	443.0	441.7	435.1	425.8	424.5	419.2	404.7	398.0	388.8
7.5°	478.7	477.4	476.1	470.8	458.9	444.3	440.4	432.4	417.9	404.7	394.1
10°	501.2	506.5	501.2	489.3	477.4	461.5	460.2	445.7	432.4	416.6	403.3
12.5°	526.3	527.6	518.4	503.8	485.3	472.1	466.8	461.5	447.0	433.8	413.9
15°	543.5	540.9	534.3	514.4	493.3	480.0	481.4	474.7	458.9	449.6	428.5
17.5°	543.5	543.5	532.9	518.4	499.9	488.0	488.0	484.0	473.4	460.2	445.7
20°	532.9	532.9	526.3	518.4	497.2	494.6	491.9	489.3	489.3	477.4	456.2
22.5°	519.7	517.1	519.7	506.5	491.9	494.6	498.6	497.2	493.3	482.7	468.1
25°	506.5	507.8	510.5	501.2	488.0	499.9	498.6	505.2	502.5	494.6	482.7
27.5°	505.2	507.8	509.1	499.9	494.6	505.2	510.5	517.1	518.4	510.5	495.9
30°	525.0	523.7	522.4	510.5	506.5	515.7	521.0	530.3	538.2	521.0	509.1
32.5°	576.6	568.6	560.7	529.0	517.1	523.7	529.0	542.2	543.5	534.3	517.1
35°	658.6	653.3	626.8	571.3	538.2	531.6	536.9	546.2	548.8	542.2	529.0
37.5°	752.5	749.8	712.8	645.3	581.9	550.1	544.8	558.1	568.6	554.1	535.6
40°	845.0	834.4	808.0	741.9	637.4	577.9	571.3	577.9	581.9	571.3	559.4
42.5°	928.3	916.4	909.8	843.7	710.1	624.2	618.9	603.0	614.9	601.7	585.8
45°	998.4	995.8	993.1	936.3	793.5	699.6	695.6	654.6	667.8	657.2	634.8
47.5°	1048.7	1060.6	1056.6	1024.9	888.7	780.2	768.3	715.4	735.3	724.7	702.2
50°	1108.2	1114.8	1110.8	1089.7	977.3	872.8	850.3	796.1	818.6	817.3	805.4
52.5°	1161.1	1180.9	1158.4	1157.1	1104.2	973.3	934.9	883.4	920.4	934.9	933.6
55°	1223.2	1239.1	1232.5	1229.8	1217.9	1071.2	1036.8	974.6	1036.8	1057.9	1076.4
57.5°	1276.1	1274.8	1299.9	1330.4	1344.9	1183.6	1142.6	1069.8	1163.7	1187.5	1239.1
60°	1299.9	1322.4	1364.7	1441.4	1482.4	1303.9	1261.6	1203.4	1292.0	1310.5	1405.7
62.5°	1315.8	1335.6	1417.6	1547.2	1571.0	1426.9	1387.2	1329.0	1432.2	1445.4	1586.9
65°	1272.2	1290.7	1453.3	1586.9	1671.5	1559.1	1549.9	1489.0	1572.4	1580.3	1777.3
67.5°	1221.9	1241.8	1422.9	1637.2	1805.1	1735.0	1720.5	1647.7	1711.2	1702.0	1922.8
70°	1133.3	1159.8	1344.9	1680.8	1953.2	1981.0	1951.9	1848.7	1855.4	1768.1	1929.4
72.5°	863.5	880.7	1052.6	1507.6	2022.0	2322.2	2271.9	2065.6	1990.2	1781.3	1703.3
75°	409.9	441.7	587.2	997.1	1772.0	2338.0	2371.1	2172.7	1918.8	1580.3	1207.4
77.5°	119.0	119.0	178.5	423.2	1110.8	1884.4	1946.6	1844.8	1582.9	1170.3	634.8
80°	64.8	68.8	93.9	149.4	488.0	1188.9	1278.8	1223.2	932.3	462.8	164.0
82.5°	37.0	38.4	62.2	89.9	222.2	646.7	699.6	634.8	354.4	140.2	76.7
85°	21.2	22.5	35.7	59.5	132.2	238.0	259.2	224.8	142.8	93.9	38.4
87.5°	10.6	10.6	17.2	27.8	67.4	67.4	66.1	80.7	86.0	56.9	17.2
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°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	384.8	383.5	383.5	378.2	376.9	372.9	372.9	370.3	369.0	372.9	372.9
5°	386.1	379.5	378.2	372.9	374.2	371.6	376.9	374.2	372.9	372.9	371.6
7.5°	388.8	382.2	376.9	372.9	371.6	375.6	382.2	382.2	390.1	386.1	386.1
10°	395.4	391.4	384.8	382.2	382.2	386.1	394.1	399.4	406.0	406.0	402.0
12.5°	411.3	404.7	396.7	392.8	398.0	402.0	409.9	415.2	423.2	425.8	423.2
15°	423.2	416.6	413.9	411.3	415.2	420.5	427.1	432.4	441.7	444.3	443.0
17.5°	439.0	431.1	429.8	431.1	433.8	437.7	441.7	445.7	452.3	452.3	452.3
20°	447.0	444.3	443.0	447.0	452.3	457.6	454.9	452.3	450.9	453.6	452.3
22.5°	461.5	458.9	460.2	464.2	464.2	461.5	457.6	448.3	445.7	448.3	445.7
25°	474.7	472.1	472.1	469.5	468.1	458.9	450.9	443.0	433.8	437.7	436.4
27.5°	488.0	486.6	486.6	476.1	462.8	447.0	436.4	427.1	421.9	428.5	424.5
30°	503.8	505.2	498.6	473.4	441.7	424.5	412.6	411.3	409.9	413.9	412.6
32.5°	518.4	519.7	509.1	469.5	425.8	392.8	380.9	382.2	388.8	395.4	402.0
35°	526.3	532.9	519.7	456.2	394.1	357.1	343.8	355.7	367.6	376.9	383.5
37.5°	540.9	558.1	535.6	441.7	366.3	325.3	316.1	320.0	334.6	349.1	355.7
40°	562.0	581.9	539.5	413.9	329.3	293.6	288.3	289.6	294.9	304.2	310.8
42.5°	599.1	620.2	543.5	378.2	292.3	273.7	259.2	255.2	251.3	251.3	249.9
45°	653.3	673.1	538.2	333.2	255.2	242.0	231.4	222.2	211.6	194.4	197.0
47.5°	732.6	748.5	542.2	293.6	220.8	210.3	202.3	191.8	175.9	157.4	156.0
50°	853.0	829.2	536.9	252.6	195.7	186.5	179.8	165.3	146.8	133.6	132.2
52.5°	993.1	945.5	531.6	218.2	174.6	166.6	161.3	145.5	128.3	121.7	120.3
55°	1162.4	1093.6	539.5	187.8	158.7	152.1	146.8	132.2	119.0	113.7	112.4
57.5°	1362.1	1253.7	583.2	164.0	141.5	138.9	137.5	125.6	113.7	109.8	108.4
60°	1549.9	1407.1	612.3	146.8	125.6	128.3	130.9	125.6	112.4	109.8	109.8
62.5°	1707.2	1534.0	566.0	132.2	117.7	125.6	137.5	133.6	128.3	130.9	128.3
65°	1846.1	1577.6	423.2	124.3	113.7	132.2	152.1	150.8	138.9	141.5	140.2
67.5°	1869.9	1524.7	276.4	117.7	111.1	145.5	170.6	154.7	130.9	130.9	127.0
70°	1770.7	1383.2	185.1	111.1	109.8	145.5	174.6	145.5	123.0	123.0	117.7
72.5°	1453.3	1105.5	142.8	104.5	100.5	129.6	165.3	137.5	115.1	112.4	103.1
75°	954.8	712.8	116.4	99.2	87.3	113.7	149.4	127.0	109.8	101.8	97.9
77.5°	468.1	320.0	97.9	87.3	75.4	99.2	136.2	120.3	103.1	95.2	92.6
80°	128.3	115.1	82.0	76.7	63.5	86.0	128.3	115.1	96.5	88.6	84.6
82.5°	72.7	71.4	66.1	62.2	52.9	86.0	129.6	115.1	91.2	89.9	76.7
85°	39.7	42.3	47.6	46.3	41.0	76.7	123.0	100.5	74.1	62.2	62.2
87.5°	15.9	19.8	23.8	26.4	27.8	56.9	92.6	76.7	56.9	47.6	47.6
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)