

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: P675305

Luminaire Tested: **CCW-SA-2A-827-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675305
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

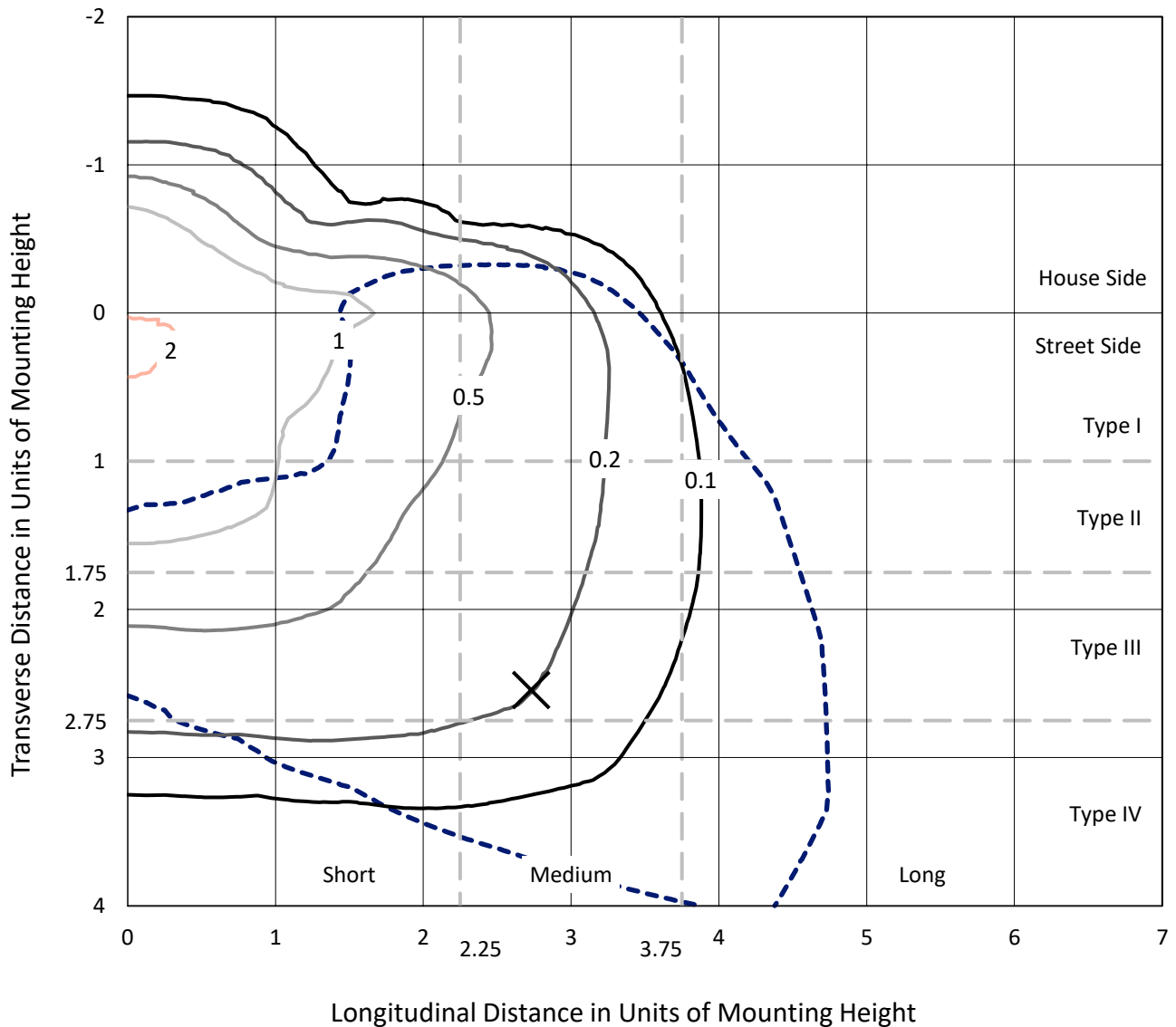
Lumens per Lamp: N/A
Luminaire Lumens: 4057.7 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

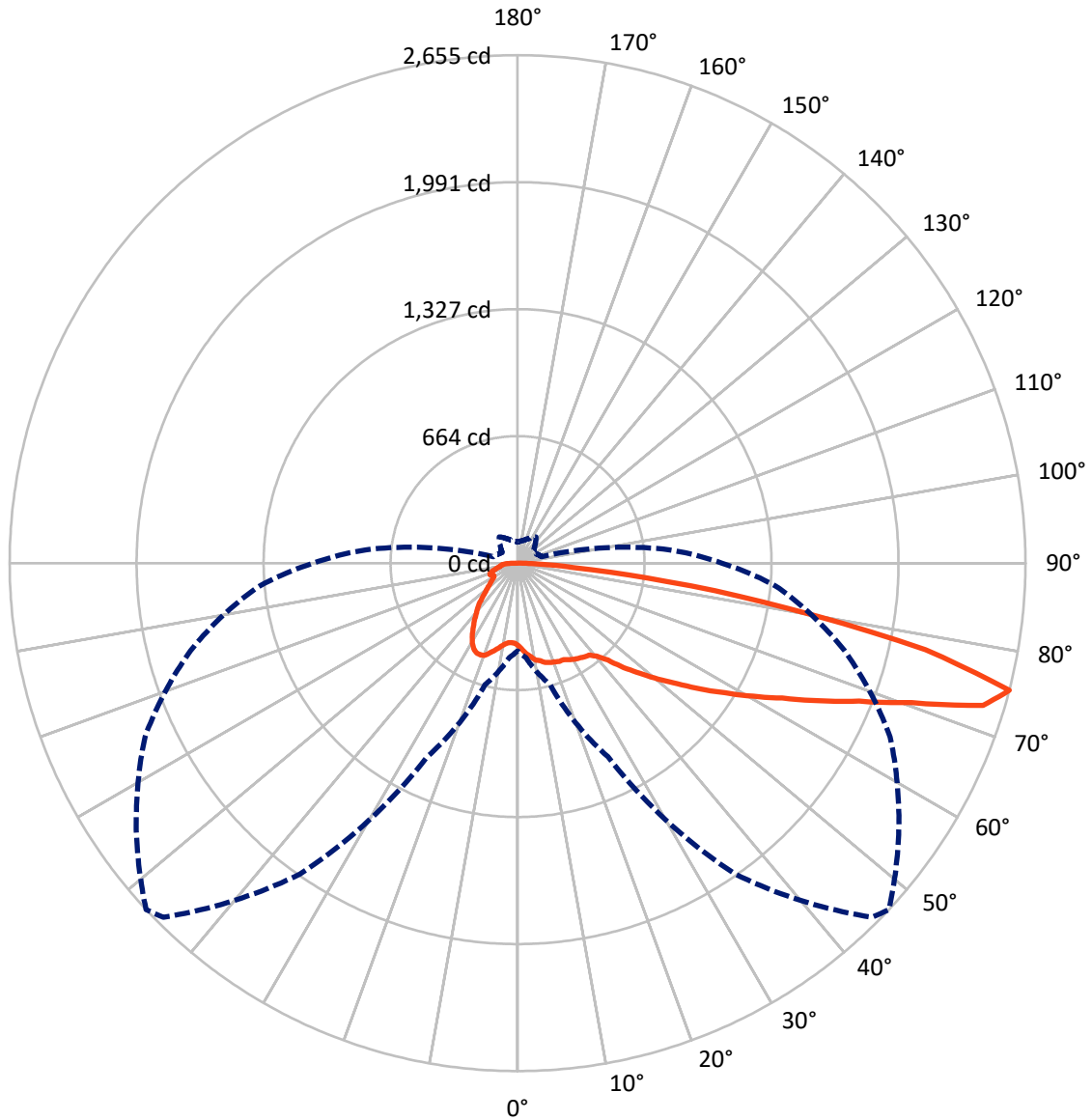
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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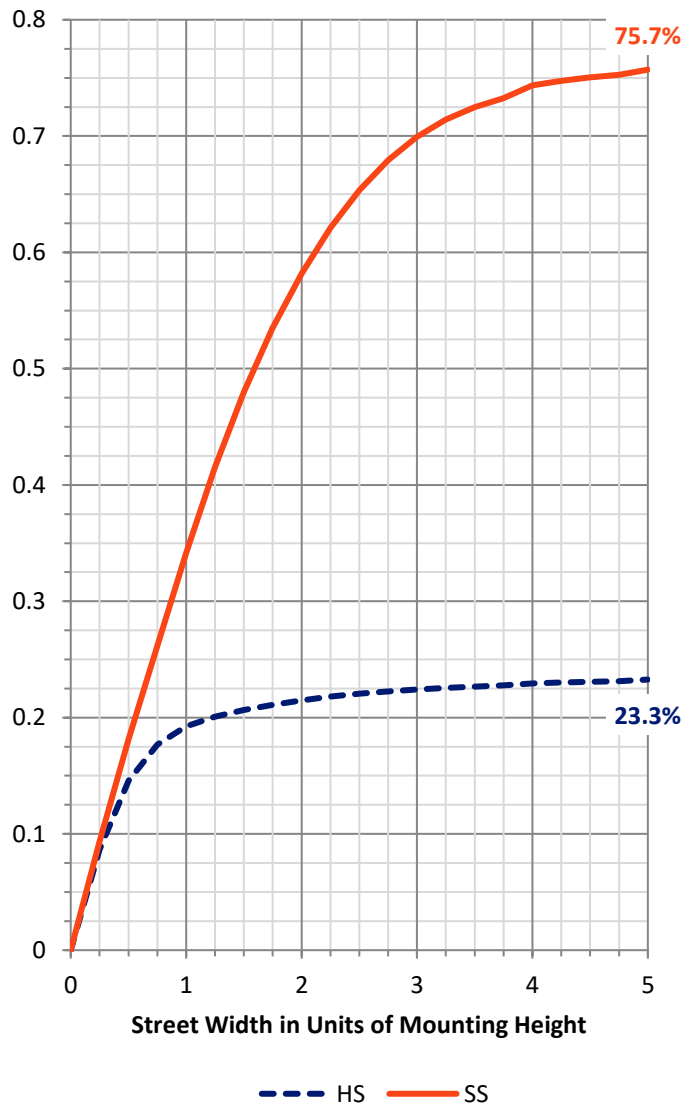
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.4	0.0	970.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3087.3	0.0	3087.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	4057.7	0.0	4057.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.1
10°-20°	144.6	3.6
20°-30°	247.7	6.1
30°-40°	346.6	8.5
40°-50°	483.3	11.9
50°-60°	722.4	17.8
60°-70°	1041.6	25.7
70°-80°	886.6	21.8
80°-90°	141.2	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°	4057.7	100.0
0°-180°	4057.7	100.0



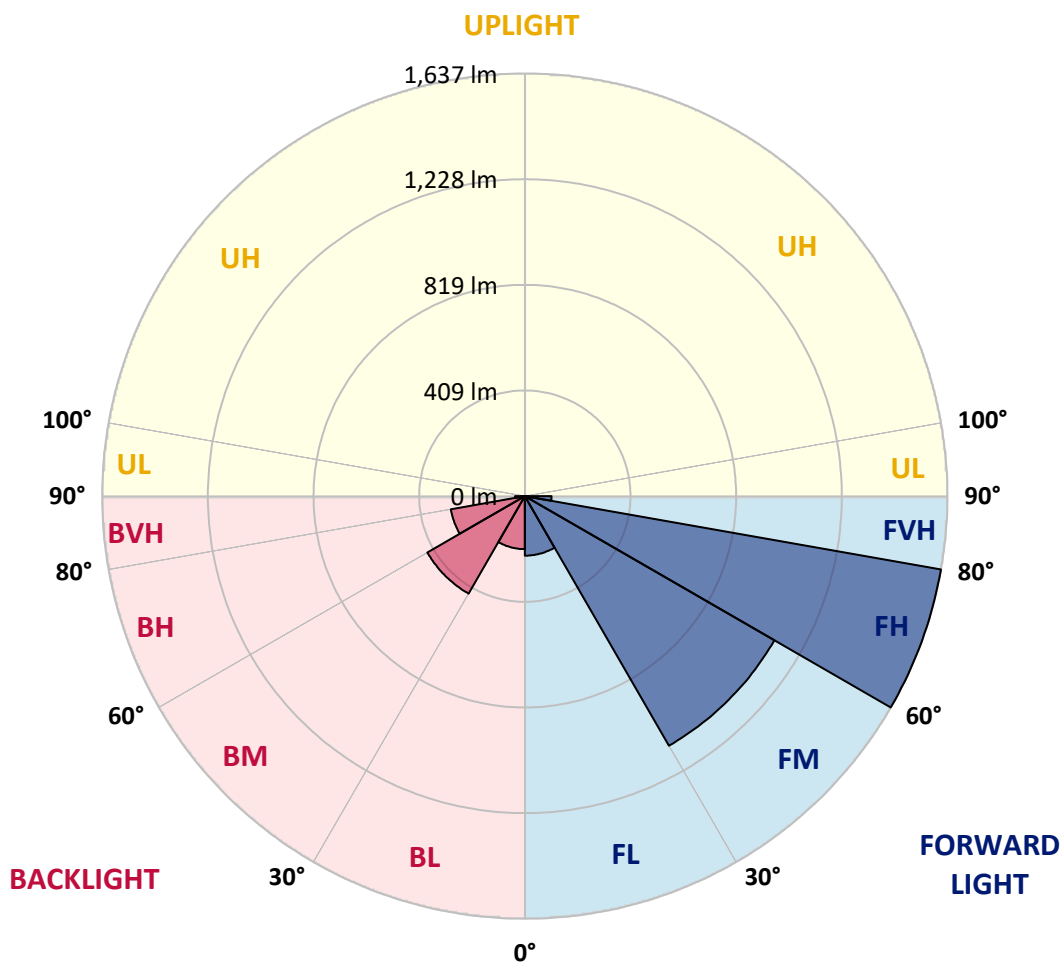
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.5	5.7			
FM (30°-60°)	1116.2	27.5			
FH (60°-80°)	1637.0	40.3			G1/1800
FVH (80°-90°)	103.5	2.6			G2/225
BL (0°-30°)	205.4	5.1	B1/500		
BM (30°-60°)	436.1	10.7	B1/1000		
BH (60°-80°)	291.1	7.2	B1/500		G1/500
BVH (80°-90°)	37.8	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	461.9	463.4	463.4	460.5	457.5	451.6	451.6	445.6	442.7	435.3	432.3
5°	504.9	500.4	496.0	494.5	487.1	476.7	475.3	469.3	453.0	445.6	435.3
7.5°	536.0	534.5	533.0	527.1	513.8	497.5	493.0	484.1	467.9	453.0	441.2
10°	561.1	567.1	561.1	547.8	534.5	516.7	515.2	498.9	484.1	466.4	451.6
12.5°	589.3	590.7	580.4	564.1	543.4	528.6	522.6	516.7	500.4	485.6	463.4
15°	608.5	605.5	598.1	575.9	552.2	537.4	538.9	531.5	513.8	503.4	479.7
17.5°	608.5	608.5	596.7	580.4	559.6	546.3	546.3	541.9	530.0	515.2	498.9
20°	596.7	596.7	589.3	580.4	556.7	553.7	550.8	547.8	547.8	534.5	510.8
22.5°	581.9	578.9	581.9	567.1	550.8	553.7	558.2	556.7	552.2	540.4	524.1
25°	567.1	568.5	571.5	561.1	546.3	559.6	558.2	565.6	562.6	553.7	540.4
27.5°	565.6	568.5	570.0	559.6	553.7	565.6	571.5	578.9	580.4	571.5	555.2
30°	587.8	586.3	584.8	571.5	567.1	577.4	583.3	593.7	602.6	583.3	570.0
32.5°	645.5	636.6	627.8	592.2	578.9	586.3	592.2	607.0	608.5	598.1	578.9
35°	737.3	731.4	701.8	639.6	602.6	595.2	601.1	611.5	614.4	607.0	592.2
37.5°	842.4	839.5	798.0	722.5	651.4	615.9	610.0	624.8	636.6	620.4	599.6
40°	946.1	934.2	904.6	830.6	713.6	647.0	639.6	647.0	651.4	639.6	626.3
42.5°	1039.3	1026.0	1018.6	944.6	795.1	698.8	692.9	675.1	688.5	673.7	655.9
45°	1117.8	1114.9	1111.9	1048.2	888.3	783.2	778.8	732.9	747.7	735.8	710.7
47.5°	1174.1	1187.4	1183.0	1147.4	994.9	873.5	860.2	801.0	823.2	811.3	786.2
50°	1240.7	1248.1	1243.7	1220.0	1094.1	977.2	952.0	891.3	916.5	915.0	901.7
52.5°	1299.9	1322.1	1297.0	1295.5	1236.3	1089.7	1046.7	989.0	1030.5	1046.7	1045.3
55°	1369.5	1387.3	1379.9	1376.9	1363.6	1199.2	1160.8	1091.2	1160.8	1184.4	1205.2
57.5°	1428.7	1427.3	1455.4	1489.4	1505.7	1325.1	1279.2	1197.8	1302.9	1329.5	1387.3
60°	1455.4	1480.6	1527.9	1613.8	1659.7	1459.8	1412.4	1347.3	1446.5	1467.2	1573.8
62.5°	1473.1	1495.4	1587.2	1732.2	1758.9	1597.5	1553.1	1488.0	1603.4	1618.2	1776.7
65°	1424.3	1445.0	1627.1	1776.7	1871.4	1745.6	1735.2	1667.1	1760.4	1769.3	1989.9
67.5°	1368.0	1390.2	1593.1	1832.9	2021.0	1942.5	1926.2	1844.8	1915.8	1905.5	2152.7
70°	1268.8	1298.4	1505.7	1881.8	2186.8	2217.9	2185.3	2069.8	2077.2	1979.5	2160.1
72.5°	966.8	986.0	1178.5	1687.8	2263.8	2599.8	2543.6	2312.6	2228.2	1994.3	1907.0
75°	459.0	494.5	657.4	1116.3	1983.9	2617.6	2654.6	2432.5	2148.3	1769.3	1351.7
77.5°	133.2	133.2	199.9	473.8	1243.7	2109.8	2179.4	2065.4	1772.2	1310.3	710.7
80°	72.5	77.0	105.1	167.3	546.3	1331.0	1431.7	1369.5	1043.8	518.2	183.6
82.5°	41.5	42.9	69.6	100.7	248.7	724.0	783.2	710.7	396.8	156.9	85.9
85°	23.7	25.2	40.0	66.6	148.1	266.5	290.2	251.7	159.9	105.1	42.9
87.5°	11.8	11.8	19.2	31.1	75.5	75.5	74.0	90.3	96.2	63.7	19.2
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°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	430.8	429.4	429.4	423.4	422.0	417.5	417.5	414.6	413.1	417.5	417.5
5°	432.3	424.9	423.4	417.5	419.0	416.0	422.0	419.0	417.5	417.5	416.0
7.5°	435.3	427.9	422.0	417.5	416.0	420.5	427.9	427.9	436.8	432.3	432.3
10°	442.7	438.2	430.8	427.9	427.9	432.3	441.2	447.1	454.5	454.5	450.1
12.5°	460.5	453.0	444.2	439.7	445.6	450.1	459.0	464.9	473.8	476.7	473.8
15°	473.8	466.4	463.4	460.5	464.9	470.8	478.2	484.1	494.5	497.5	496.0
17.5°	491.5	482.7	481.2	482.7	485.6	490.1	494.5	498.9	506.3	506.3	506.3
20°	500.4	497.5	496.0	500.4	506.3	512.3	509.3	506.3	504.9	507.8	506.3
22.5°	516.7	513.8	515.2	519.7	519.7	516.7	512.3	501.9	498.9	501.9	498.9
25°	531.5	528.6	528.6	525.6	524.1	513.8	504.9	496.0	485.6	490.1	488.6
27.5°	546.3	544.8	544.8	533.0	518.2	500.4	488.6	478.2	472.3	479.7	475.3
30°	564.1	565.6	558.2	530.0	494.5	475.3	461.9	460.5	459.0	463.4	461.9
32.5°	580.4	581.9	570.0	525.6	476.7	439.7	426.4	427.9	435.3	442.7	450.1
35°	589.3	596.7	581.9	510.8	441.2	399.7	384.9	398.3	411.6	422.0	429.4
37.5°	605.5	624.8	599.6	494.5	410.1	364.2	353.9	358.3	374.6	390.9	398.3
40°	629.2	651.4	604.1	463.4	368.7	328.7	322.8	324.2	330.2	340.5	347.9
42.5°	670.7	694.4	608.5	423.4	327.2	306.5	290.2	285.7	281.3	281.3	279.8
45°	731.4	753.6	602.6	373.1	285.7	270.9	259.1	248.7	236.9	217.6	220.6
47.5°	820.2	838.0	607.0	328.7	247.3	235.4	226.5	214.7	196.9	176.2	174.7
50°	955.0	928.3	601.1	282.8	219.1	208.8	201.4	185.1	164.3	149.5	148.1
52.5°	1111.9	1058.6	595.2	244.3	195.4	186.5	180.6	162.9	143.6	136.2	134.7
55°	1301.4	1224.4	604.1	210.2	177.7	170.3	164.3	148.1	133.2	127.3	125.8
57.5°	1525.0	1403.6	652.9	183.6	158.4	155.5	154.0	140.7	127.3	122.9	121.4
60°	1735.2	1575.3	685.5	164.3	140.7	143.6	146.6	140.7	125.8	122.9	122.9
62.5°	1911.4	1717.4	633.7	148.1	131.8	140.7	154.0	149.5	143.6	146.6	143.6
65°	2066.8	1766.3	473.8	139.2	127.3	148.1	170.3	168.8	155.5	158.4	156.9
67.5°	2093.5	1707.1	309.4	131.8	124.4	162.9	191.0	173.2	146.6	146.6	142.1
70°	1982.5	1548.7	207.3	124.4	122.9	162.9	195.4	162.9	137.7	137.7	131.8
72.5°	1627.1	1237.7	159.9	117.0	112.5	145.1	185.1	154.0	128.8	125.8	115.5
75°	1069.0	798.0	130.3	111.0	97.7	127.3	167.3	142.1	122.9	114.0	109.6
77.5°	524.1	358.3	109.6	97.7	84.4	111.0	152.5	134.7	115.5	106.6	103.6
80°	143.6	128.8	91.8	85.9	71.1	96.2	143.6	128.8	108.1	99.2	94.8
82.5°	81.4	79.9	74.0	69.6	59.2	96.2	145.1	128.8	102.2	100.7	85.9
85°	44.4	47.4	53.3	51.8	45.9	85.9	137.7	112.5	82.9	69.6	69.6
87.5°	17.8	22.2	26.6	29.6	31.1	63.7	103.6	85.9	63.7	53.3	53.3
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)