

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: P674910

Luminaire Tested: **CCW-SA-2E-840-U-T2**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P674910
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-840-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T2 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

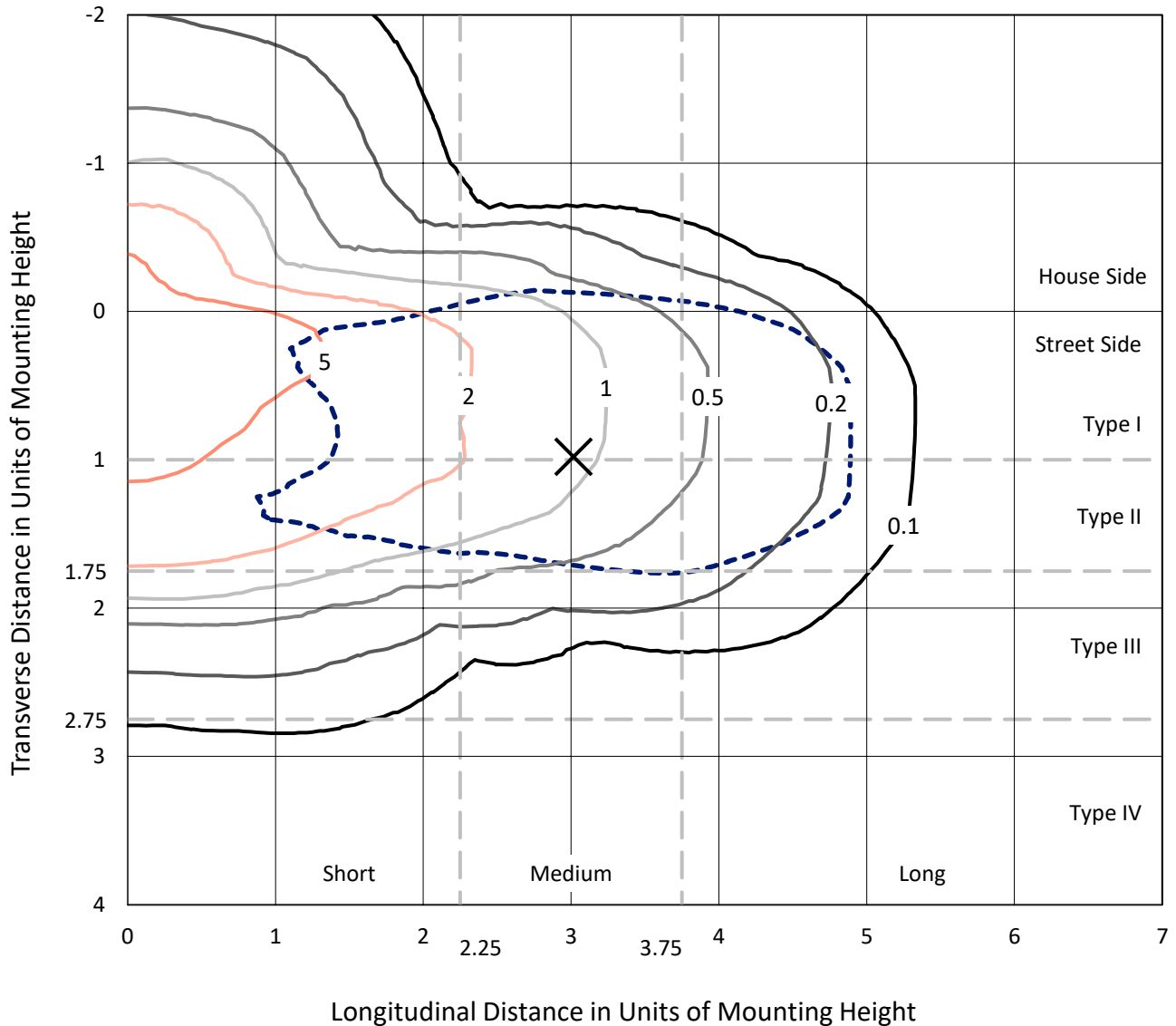
Lumens per Lamp: N/A
Luminaire Lumens: 11628.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6
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

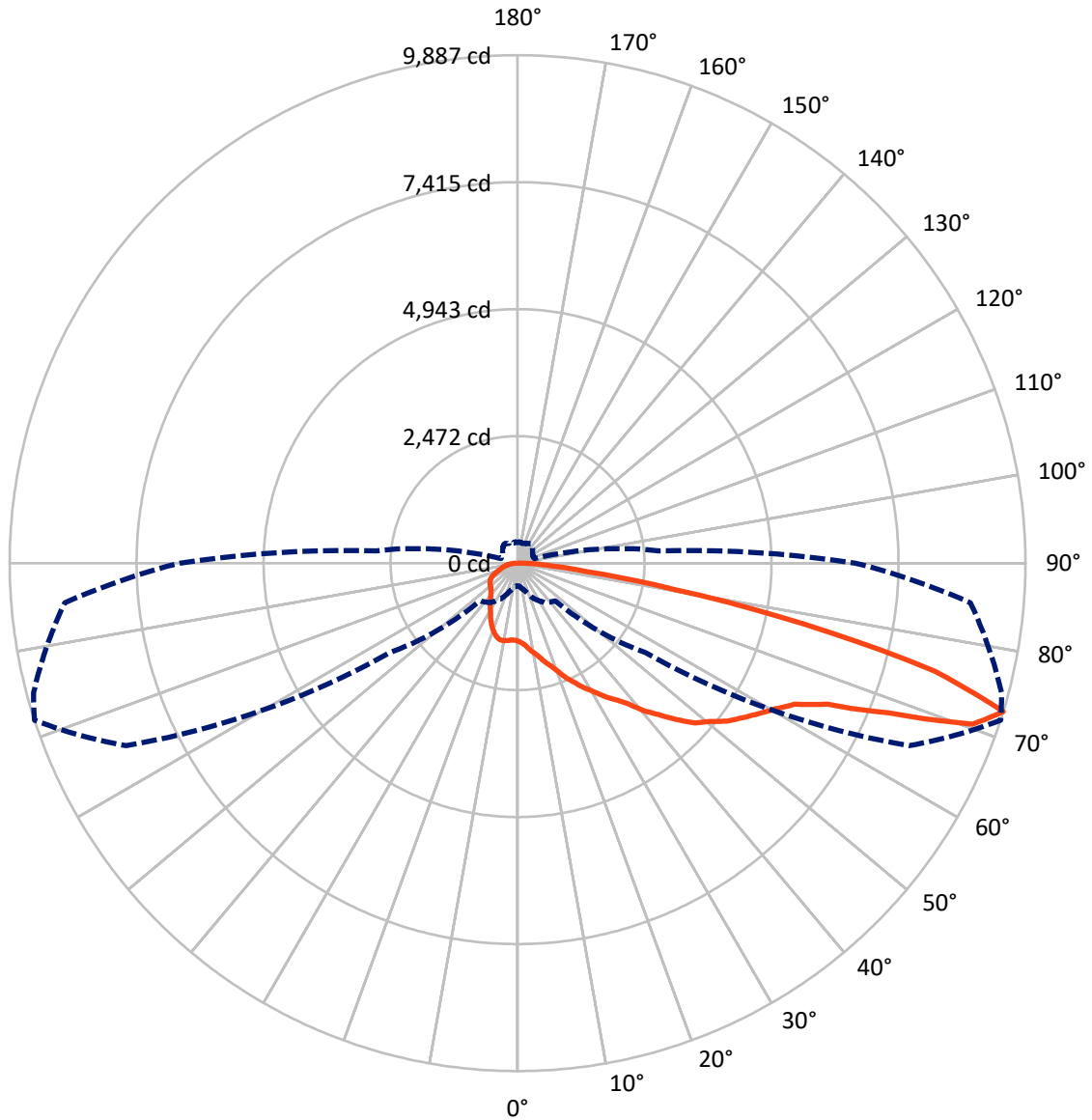
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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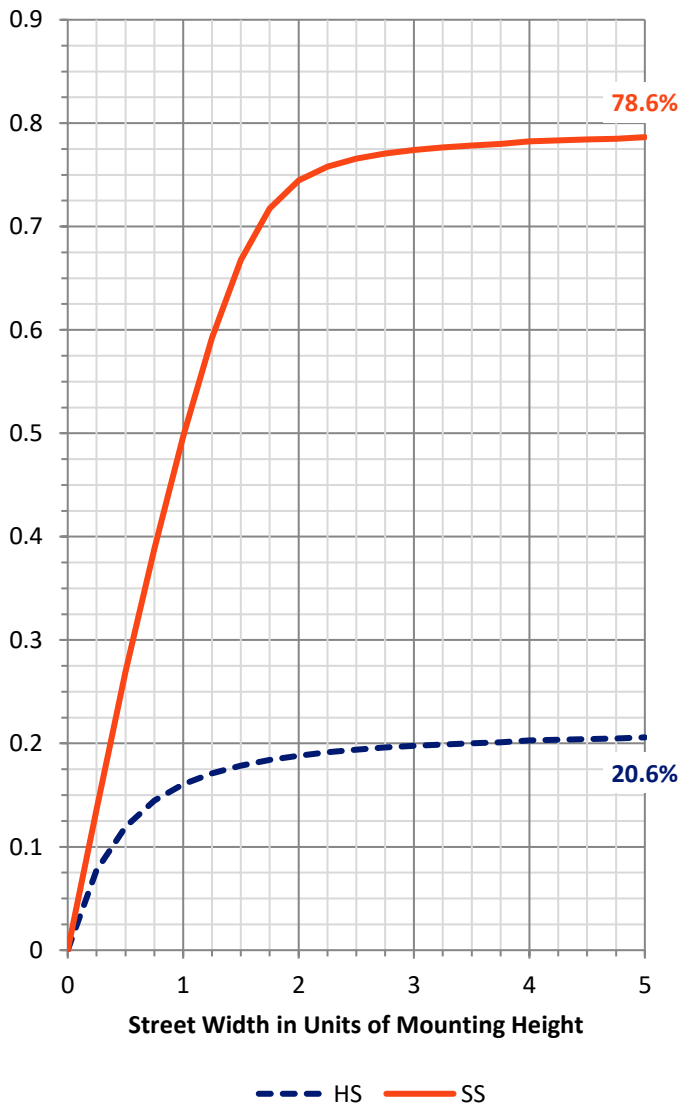
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.3	0.0	2447.3
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	9181.3	0.0	9181.3
	% Fixture	79.0	0.0	79.0
Total	Lumens	11628.6	0.0	11628.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	1.3
10°-20°	466.7	4.0
20°-30°	807.5	6.9
30°-40°	1192.7	10.3
40°-50°	1773.7	15.3
50°-60°	2431.6	20.9
60°-70°	2637.6	22.7
70°-80°	1859.6	16.0
80°-90°	309.0	2.7
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°	11628.6	100.0
0°-180°	11628.6	100.0



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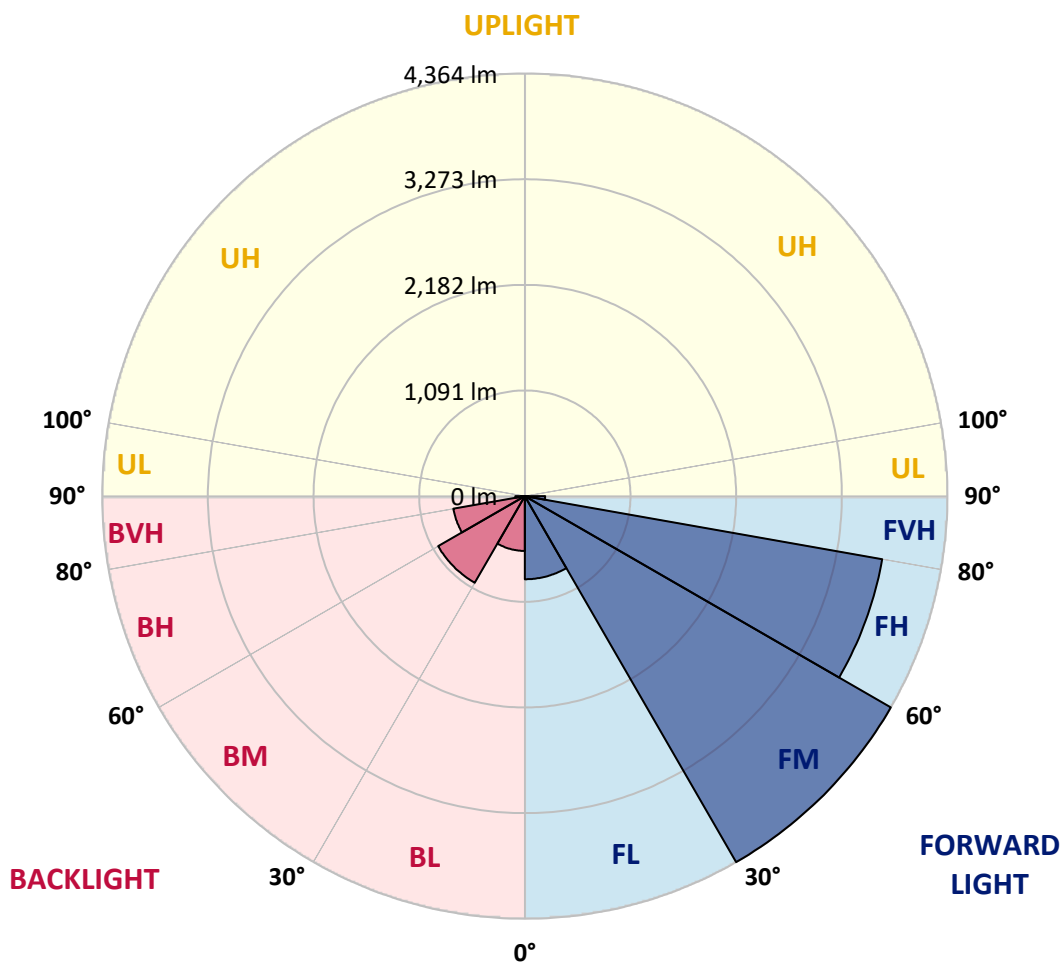
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.7	7.4			
FM (30°-60°)	4364.4	37.5			
FH (60°-80°)	3747.5	32.2			G2/5000
FVH (80°-90°)	210.6	1.8			G2/225
BL (0°-30°)	565.6	4.9	B2/1000		
BM (30°-60°)	1033.7	8.9	B2/2500		
BH (60°-80°)	749.6	6.4	B2/1000		G2/1000
BVH (80°-90°)	98.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0
2.5°	1639.2	1639.2	1626.3	1622.0	1622.0	1587.7	1592.0	1570.5	1553.3	1553.3	1536.2
5°	1725.0	1716.4	1716.4	1716.4	1694.9	1682.1	1677.8	1639.2	1609.1	1613.4	1561.9
7.5°	1746.4	1750.7	1755.0	1776.5	1763.6	1772.2	1763.6	1720.7	1699.2	1677.8	1630.6
10°	1759.3	1767.9	1767.9	1797.9	1797.9	1819.4	1832.3	1815.1	1776.5	1755.0	1677.8
12.5°	1789.3	1776.5	1793.6	1815.1	1836.5	1875.2	1913.8	1896.6	1870.9	1845.1	1759.3
15°	1789.3	1793.6	1806.5	1840.8	1875.2	1913.8	1982.4	2008.2	1995.3	1948.1	1858.0
17.5°	1737.9	1725.0	1785.1	1849.4	1913.8	1961.0	2051.1	2111.2	2102.6	2085.4	1948.1
20°	1742.1	1755.0	1776.5	1832.3	1935.2	2021.1	2132.6	2231.3	2252.8	2244.2	2068.3
22.5°	1819.4	1823.7	1845.1	1870.9	1952.4	2064.0	2231.3	2390.1	2428.7	2407.3	2201.3
25°	1896.6	1931.0	1931.0	1948.1	1978.2	2094.0	2295.7	2518.8	2574.6	2578.9	2338.6
27.5°	2021.1	2029.6	2055.4	2064.0	2089.7	2158.4	2368.6	2613.2	2741.9	2724.8	2463.0
30°	2167.0	2171.2	2188.4	2179.8	2184.1	2269.9	2437.3	2720.5	2896.4	2900.7	2596.1
32.5°	2338.6	2372.9	2381.5	2325.7	2334.3	2355.8	2544.6	2849.2	3089.5	3059.5	2711.9
35°	2591.8	2604.6	2578.9	2553.1	2488.8	2475.9	2656.1	2978.0	3256.9	3291.2	2883.6
37.5°	2905.0	2939.3	2905.0	2767.7	2699.0	2647.5	2793.4	3119.6	3458.5	3574.4	3055.2
40°	3196.8	3192.5	3158.2	3033.7	2913.6	2875.0	2990.8	3316.9	3771.8	3883.4	3304.1
42.5°	3432.8	3419.9	3398.5	3304.1	3192.5	3128.1	3218.3	3522.9	4033.5	4248.1	3591.6
45°	3638.8	3621.6	3625.9	3518.6	3411.3	3445.7	3445.7	3758.9	4342.5	4608.5	3922.0
47.5°	3831.9	3840.4	3827.6	3746.0	3664.5	3754.6	3707.4	4029.2	4647.2	4943.2	4200.9
50°	4055.0	4072.2	4029.2	3977.8	3904.8	3994.9	3934.8	4282.4	4844.5	5247.9	4535.6
52.5°	4265.3	4282.4	4321.0	4256.7	4183.7	4256.7	4119.4	4518.4	5106.3	5544.0	4793.0
55°	4316.7	4308.2	4522.7	4591.4	4630.0	4411.1	4282.4	4720.1	5312.3	5732.8	5084.8
57.5°	4080.7	4102.2	4394.0	4591.4	5003.3	4814.5	4466.9	4956.1	5526.8	5981.7	5355.2
60°	3492.9	3505.7	3870.5	4338.2	4938.9	5192.1	4964.7	5260.8	5762.8	6191.9	5659.8
62.5°	2334.3	2433.0	2887.8	3621.6	4484.1	5295.1	5758.5	5775.7	6050.3	6458.0	6076.1
65°	1231.5	1278.7	1634.9	2227.0	3398.5	4938.9	6505.2	6796.9	6625.3	6947.1	6676.8
67.5°	806.7	823.9	1017.0	1351.7	1961.0	3604.4	6591.0	8569.1	7779.6	7878.3	7638.0
70°	600.7	609.3	750.9	999.8	1214.4	1926.7	5402.4	9397.3	9393.0	9131.2	8779.4
72.5°	442.0	454.8	553.5	763.8	935.4	1038.4	3038.0	8406.1	9886.5	9753.4	8848.0
75°	347.6	356.2	407.6	592.2	755.2	682.3	1540.5	6226.2	8384.6	9024.0	8097.1
77.5°	283.2	291.8	321.8	429.1	605.0	527.8	738.1	4016.4	5685.6	6496.6	6196.2
80°	236.0	236.0	257.5	304.7	467.7	399.1	437.7	2257.1	3063.8	3381.3	2810.6
82.5°	201.7	197.4	214.6	223.1	347.6	287.5	283.2	1021.3	1347.4	1428.9	1055.6
85°	128.7	133.0	201.7	193.1	227.4	197.4	158.8	484.9	635.1	647.9	394.8
87.5°	51.5	51.5	85.8	107.3	128.7	120.1	77.2	218.8	278.9	278.9	111.6
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°	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0
2.5°	1531.9	1514.7	1501.9	1493.3	1471.8	1450.4	1454.6	1450.4	1433.2	1424.6	1424.6
5°	1549.1	1531.9	1510.4	1476.1	1454.6	1428.9	1437.5	1420.3	1403.2	1416.0	1394.6
7.5°	1592.0	1561.9	1531.9	1480.4	1446.1	1407.4	1390.3	1381.7	1368.8	1360.2	1360.2
10°	1652.0	1609.1	1553.3	1476.1	1420.3	1360.2	1351.7	1334.5	1321.6	1321.6	1317.3
12.5°	1712.1	1664.9	1570.5	1446.1	1351.7	1308.8	1304.5	1308.8	1317.3	1321.6	1325.9
15°	1789.3	1712.1	1566.2	1390.3	1295.9	1278.7	1300.2	1317.3	1334.5	1351.7	1347.4
17.5°	1862.3	1772.2	1527.6	1321.6	1248.7	1253.0	1291.6	1325.9	1360.2	1377.4	1381.7
20°	1961.0	1828.0	1471.8	1240.1	1201.5	1240.1	1291.6	1334.5	1373.1	1394.6	1398.9
22.5°	2072.6	1892.3	1398.9	1167.2	1162.9	1201.5	1253.0	1317.3	1360.2	1398.9	1394.6
25°	2171.2	1935.2	1304.5	1107.1	1115.7	1141.4	1201.5	1270.1	1313.0	1356.0	1343.1
27.5°	2235.6	1943.8	1205.8	1064.2	1064.2	1089.9	1145.7	1188.6	1227.2	1261.6	1265.8
30°	2308.6	1926.7	1094.2	1008.4	1008.4	1042.7	1064.2	1089.9	1111.4	1120.0	1128.5
32.5°	2394.4	1888.0	1025.5	965.5	965.5	991.2	1004.1	995.5	991.2	969.8	982.6
35°	2475.9	1832.3	948.3	909.7	926.9	939.7	935.4	909.7	883.9	845.3	832.5
37.5°	2574.6	1776.5	879.7	849.6	879.7	883.9	883.9	853.9	819.6	772.4	772.4
40°	2724.8	1733.6	823.9	811.0	841.0	836.7	815.3	793.8	806.7	781.0	781.0
42.5°	2883.6	1716.4	772.4	776.7	789.5	793.8	772.4	746.6	798.1	768.1	772.4
45°	3080.9	1729.3	738.1	733.8	763.8	759.5	746.6	725.2	742.3	665.1	643.7
47.5°	3265.5	1755.0	720.9	703.7	738.1	746.6	729.5	682.3	656.5	609.3	600.7
50°	3432.8	1810.8	703.7	669.4	703.7	720.9	690.9	639.4	609.3	579.3	579.3
52.5°	3591.6	1892.3	695.1	630.8	660.8	682.3	665.1	613.6	579.3	566.4	553.5
55°	3754.6	1965.3	682.3	605.0	613.6	656.5	652.2	583.6	549.2	549.2	545.0
57.5°	3986.3	2064.0	665.1	562.1	579.3	626.5	626.5	570.7	532.1	536.4	540.7
60°	4222.3	2179.8	647.9	519.2	532.1	596.4	605.0	553.5	519.2	523.5	519.2
62.5°	4600.0	2394.4	613.6	467.7	493.5	557.8	579.3	532.1	502.0	510.6	510.6
65°	5170.7	2763.4	540.7	424.8	454.8	523.5	553.5	510.6	476.3	502.0	493.5
67.5°	6088.9	3269.7	454.8	390.5	429.1	489.2	523.5	484.9	454.8	493.5	480.6
70°	6912.8	3518.6	390.5	360.4	390.5	450.6	489.2	459.1	429.1	467.7	450.6
72.5°	6578.1	2759.1	339.0	326.1	356.2	407.6	454.8	424.8	394.8	416.2	399.1
75°	5677.0	2197.0	296.1	291.8	317.5	369.0	416.2	394.8	364.7	373.3	364.7
77.5°	4303.9	1815.1	253.2	248.9	270.3	330.4	373.3	356.2	326.1	321.8	321.8
80°	1922.4	892.5	210.3	210.3	223.1	283.2	317.5	309.0	278.9	274.6	270.3
82.5°	630.8	339.0	171.6	163.1	180.2	236.0	283.2	274.6	244.6	236.0	227.4
85°	253.2	163.1	124.4	124.4	141.6	197.4	253.2	236.0	197.4	175.9	175.9
87.5°	85.8	68.7	64.4	64.4	90.1	133.0	188.8	158.8	141.6	124.4	128.7
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)