

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: P675110

Luminaire Tested: **CCW-SA-2E-730-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675110  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-730-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4FT distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

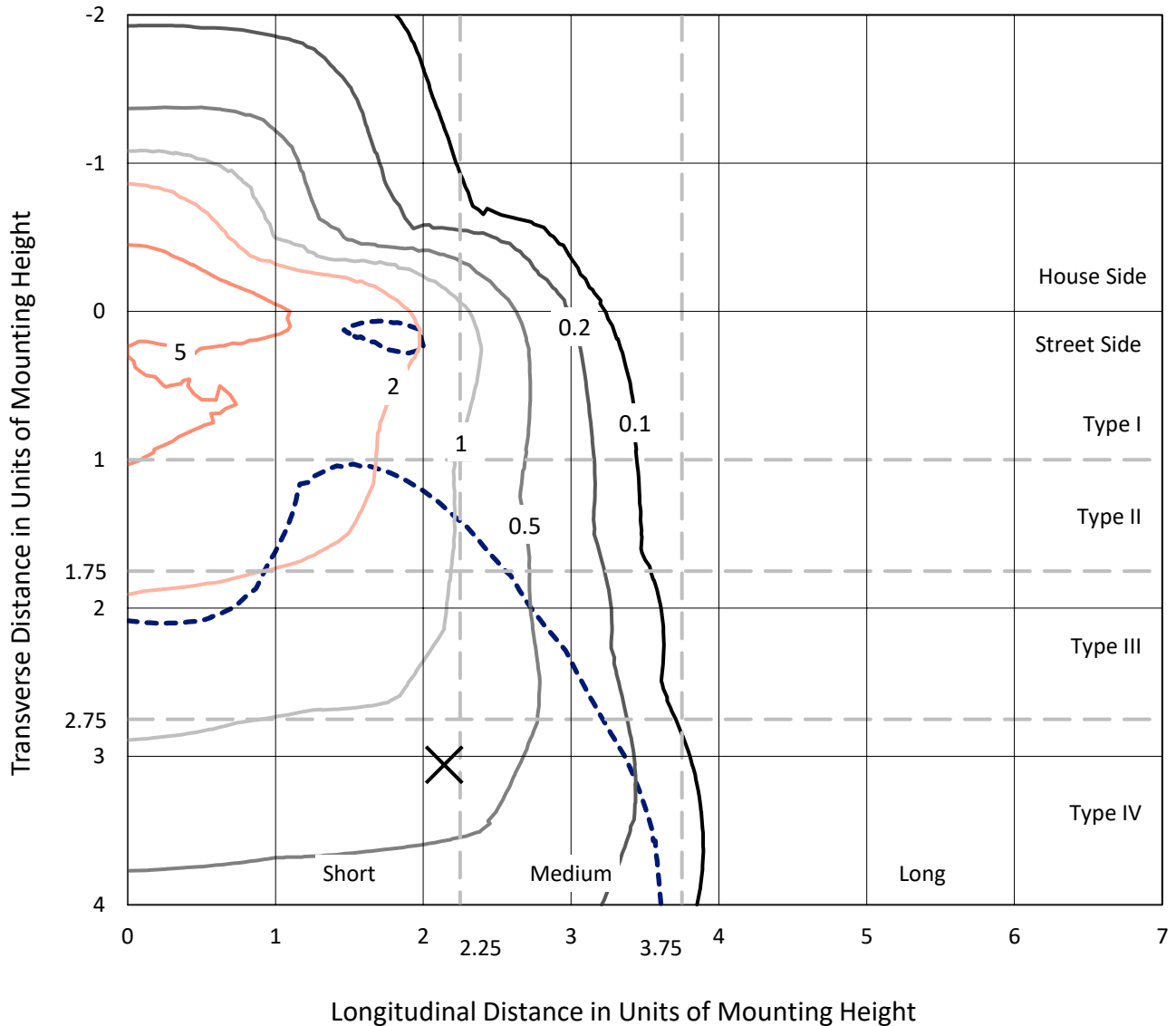
Lumens per Lamp: N/A  
Luminaire Lumens: 12443 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

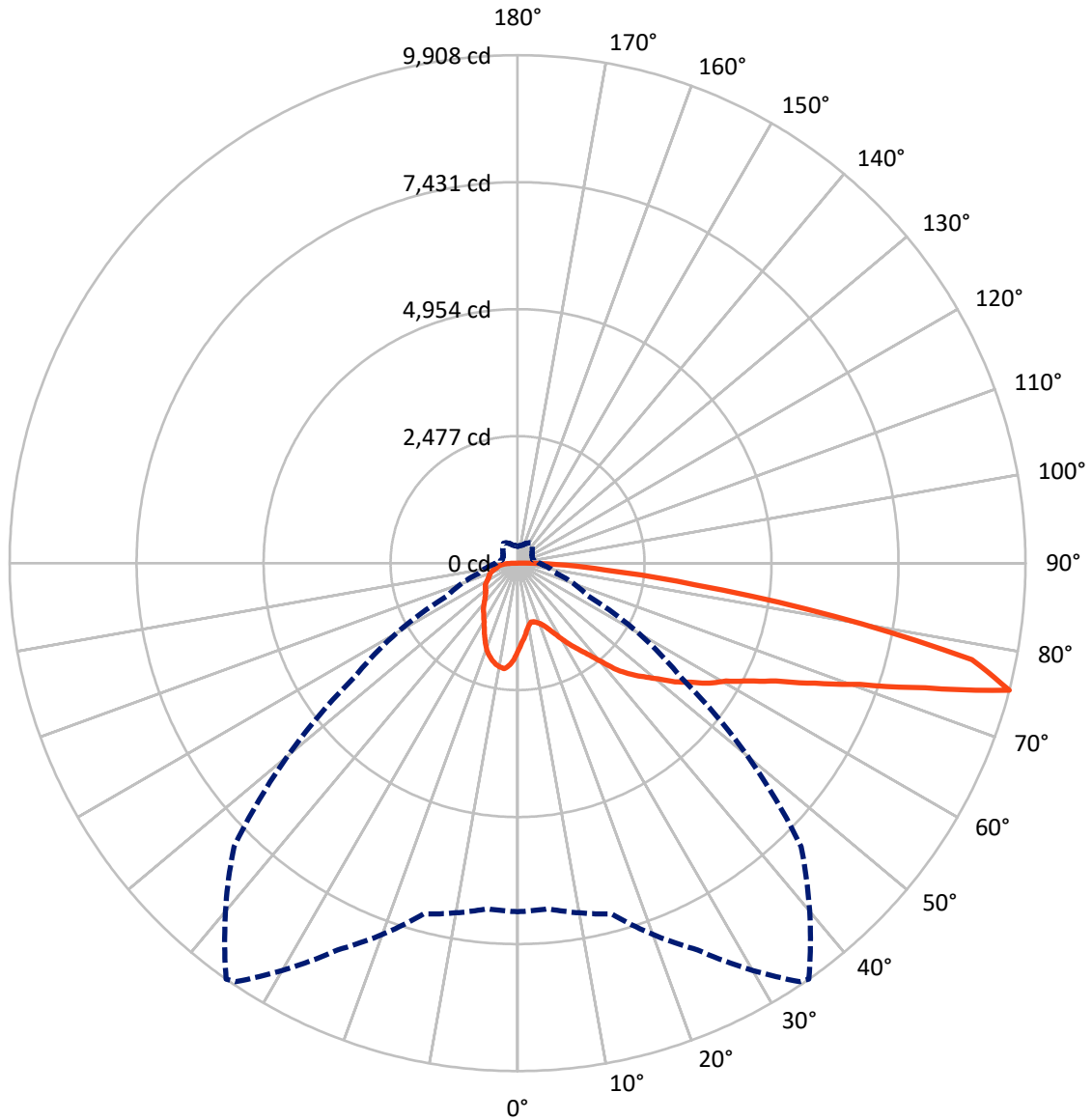
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2859.7	0.0	2859.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	9583.3	0.0	9583.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	12443.0	0.0	12443.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	1.3
10°-20°	471.4	3.8
20°-30°	782.3	6.3
30°-40°	1159.6	9.3
40°-50°	1672.0	13.4
50°-60°	2299.3	18.5
60°-70°	2840.2	22.8
70°-80°	2598.3	20.9
80°-90°	457.4	3.7
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°	12443.0	100.0
0°-180°	12443.0	100.0



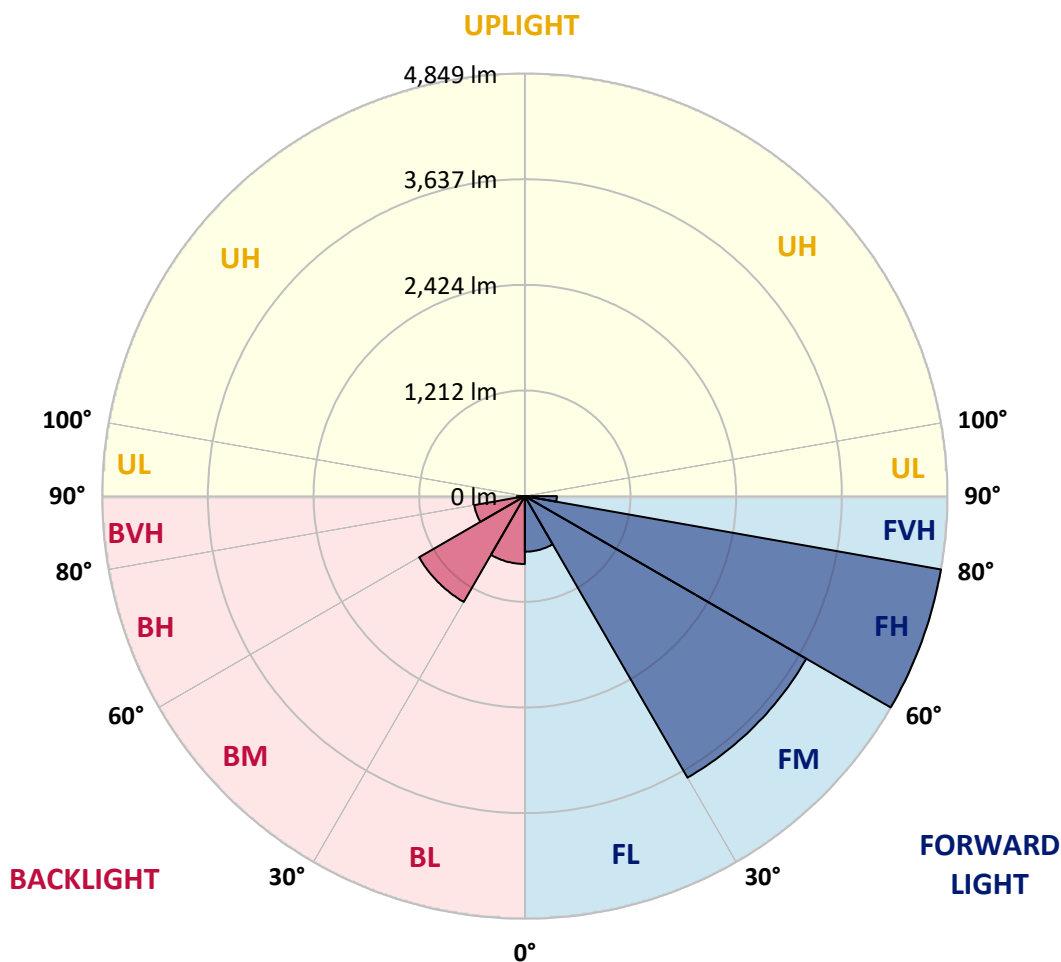
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.8	5.1			
FM (30°-60°)	3729.6	30.0			
FH (60°-80°)	4848.8	39.0			G2/5000
FVH (80°-90°)	367.1	3.0			G3/500
BL (0°-30°)	778.4	6.3	B2/1000		
BM (30°-60°)	1401.3	11.3	B2/2500		
BH (60°-80°)	589.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	90.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8
2.5°	1544.4	1530.6	1544.4	1553.5	1553.5	1553.5	1567.3	1608.5	1636.0	1654.4	1686.4
5°	1384.0	1388.6	1397.7	1420.6	1434.4	1443.6	1466.5	1516.9	1558.1	1617.7	1686.4
7.5°	1241.9	1251.1	1264.8	1287.7	1319.8	1315.2	1365.6	1434.4	1512.3	1590.2	1691.0
10°	1168.6	1186.9	1191.5	1196.1	1228.2	1228.2	1296.9	1374.8	1471.0	1571.9	1691.0
12.5°	1182.3	1182.3	1168.6	1164.0	1182.3	1177.8	1237.3	1329.0	1434.4	1576.4	1709.3
15°	1223.6	1223.6	1196.1	1168.6	1196.1	1186.9	1237.3	1310.7	1434.4	1581.0	1746.0
17.5°	1278.6	1283.2	1251.1	1205.2	1214.4	1219.0	1255.7	1324.4	1434.4	1590.2	1796.4
20°	1388.6	1365.6	1315.2	1241.9	1274.0	1260.2	1315.2	1374.8	1461.9	1626.9	1869.7
22.5°	1484.8	1484.8	1388.6	1324.4	1329.0	1329.0	1379.4	1429.8	1503.1	1677.3	1924.7
25°	1640.6	1631.4	1512.3	1416.1	1425.2	1429.8	1457.3	1516.9	1571.9	1704.8	1993.5
27.5°	1837.7	1814.7	1695.6	1585.6	1549.0	1562.7	1576.4	1622.3	1636.0	1750.6	2076.0
30°	2048.5	2016.4	1915.6	1741.4	1723.1	1727.7	1704.8	1732.3	1713.9	1823.9	2158.5
32.5°	2181.4	2181.4	2085.1	1956.8	1906.4	1906.4	1828.5	1846.8	1846.8	1892.7	2305.1
35°	2295.9	2286.8	2222.6	2126.4	2094.3	2076.0	1998.1	2025.6	1979.7	2025.6	2511.3
37.5°	2470.1	2442.6	2415.1	2350.9	2286.8	2273.0	2231.8	2250.1	2185.9	2163.0	2745.0
40°	2671.7	2658.0	2630.5	2603.0	2538.8	2534.2	2488.4	2506.7	2438.0	2350.9	2978.8
42.5°	2969.6	2928.3	2841.3	2818.4	2832.1	2850.4	2832.1	2800.0	2676.3	2566.3	3230.8
45°	3267.5	3203.3	3038.3	3001.7	3107.1	3093.3	3171.2	3157.5	2955.8	2781.7	3496.6
47.5°	3459.9	3404.9	3272.0	3249.1	3295.0	3313.3	3547.0	3505.8	3185.0	2978.8	3753.2
50°	3597.4	3602.0	3427.9	3487.4	3547.0	3547.0	3840.3	3835.7	3464.5	3221.6	4087.8
52.5°	3799.1	3734.9	3661.6	3716.6	3799.1	3844.9	4206.9	4106.1	3638.7	3427.9	4463.5
55°	3904.5	3877.0	3812.8	3909.0	4083.2	4106.1	4491.0	4413.1	3835.7	3670.7	4848.5
57.5°	3945.7	3968.6	4074.0	4115.3	4358.1	4417.7	4747.7	4637.7	4019.0	3973.2	5146.4
60°	4129.0	4096.9	4239.0	4404.0	4637.7	4669.8	5068.5	4830.2	4197.8	4170.3	5242.6
62.5°	4500.2	4417.7	4495.6	4692.7	5018.1	5059.3	5407.6	5086.8	4275.7	4303.2	5238.0
65°	5041.0	4981.4	4866.8	5022.6	5480.9	5540.5	5806.3	5306.8	4252.7	4257.3	4866.8
67.5°	5678.0	5581.7	5462.6	5558.8	6117.9	6255.4	6292.0	5403.0	4092.4	4000.7	3959.5
70°	6237.1	6172.9	6095.0	6260.0	7039.0	7089.4	6897.0	5343.4	3647.8	3212.5	2639.6
72.5°	6759.5	6727.4	6773.2	7391.9	8285.5	8317.6	7465.2	4967.6	2882.5	1947.6	1228.2
75°	6800.7	6768.6	7084.9	8326.8	9848.2	9907.8	7818.1	3895.3	1521.5	792.8	517.8
77.5°	4605.6	4701.8	5293.0	7291.1	9046.2	9060.0	6392.9	1810.2	627.8	467.4	362.0
80°	1131.9	1255.7	1993.5	3771.6	6099.6	6250.8	3501.2	609.5	412.4	357.5	270.4
82.5°	412.4	449.1	811.1	1704.8	3427.9	3487.4	1223.6	330.0	297.9	275.0	197.1
85°	197.1	201.6	384.9	838.6	1732.3	1713.9	439.9	197.1	215.4	187.9	119.2
87.5°	82.5	82.5	169.6	389.5	765.3	742.4	142.1	91.7	123.7	110.0	59.6
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°	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8
2.5°	1709.3	1718.5	1755.2	1782.7	1810.2	1833.1	1869.7	1869.7	1892.7	1892.7	1892.7
5°	1704.8	1755.2	1814.7	1878.9	1920.2	1961.4	1998.1	2002.6	2016.4	2034.7	2039.3
7.5°	1723.1	1773.5	1869.7	1961.4	2011.8	2030.1	2076.0	2062.2	2062.2	2062.2	2076.0
10°	1759.8	1814.7	1947.6	2030.1	2066.8	2071.4	2057.6	2048.5	2021.0	2011.8	1998.1
12.5°	1787.3	1883.5	2016.4	2080.5	2066.8	2053.0	2021.0	1975.1	1943.1	1933.9	1933.9
15°	1856.0	1952.2	2076.0	2098.9	2076.0	2002.6	1961.4	1911.0	1883.5	1842.2	1860.6
17.5°	1915.6	2025.6	2135.5	2108.0	2062.2	1947.6	1888.1	1814.7	1778.1	1732.3	1732.3
20°	1993.5	2094.3	2190.5	2117.2	2016.4	1892.7	1796.4	1704.8	1654.4	1608.5	1617.7
22.5°	2080.5	2172.2	2222.6	2080.5	1947.6	1805.6	1672.7	1585.6	1521.5	1494.0	1503.1
25°	2149.3	2250.1	2240.9	2021.0	1865.2	1695.6	1549.0	1466.5	1452.7	1425.2	1425.2
27.5°	2236.4	2341.8	2227.2	1947.6	1727.7	1521.5	1429.8	1397.7	1397.7	1384.0	1393.1
30°	2350.9	2424.2	2195.1	1842.2	1553.5	1365.6	1319.8	1338.1	1370.2	1356.5	1361.1
32.5°	2538.8	2529.7	2167.6	1723.1	1370.2	1214.4	1246.5	1283.2	1310.7	1324.4	1333.6
35°	2722.1	2662.5	2135.5	1562.7	1200.7	1141.1	1168.6	1209.8	1260.2	1274.0	1278.6
37.5°	2905.4	2800.0	2080.5	1365.6	1095.3	1076.9	1104.4	1127.3	1168.6	1177.8	1186.9
40°	3097.9	2891.7	1984.3	1173.2	1008.2	1008.2	1026.5	1031.1	1054.0	1067.8	1076.9
42.5°	3267.5	2978.8	1810.2	994.4	916.5	948.6	953.2	944.0	925.7	934.9	939.5
45°	3473.7	3075.0	1608.5	866.1	847.8	889.0	898.2	861.5	829.5	811.1	802.0
47.5°	3675.3	3175.8	1434.4	760.7	783.6	847.8	847.8	806.6	751.6	705.7	687.4
50°	3858.6	3276.6	1292.3	696.6	719.5	815.7	824.9	747.0	687.4	632.4	623.2
52.5°	4165.7	3446.2	1145.7	646.2	682.8	792.8	788.2	719.5	641.6	582.0	577.4
55°	4436.1	3615.7	953.2	595.8	646.2	760.7	774.5	692.0	586.6	531.6	522.4
57.5°	4633.1	3657.0	760.7	545.3	609.5	724.1	742.4	637.0	549.9	504.1	499.5
60°	4669.8	3496.6	618.7	504.1	559.1	673.7	687.4	604.9	522.4	485.8	476.6
62.5°	4500.2	3189.6	527.0	467.4	517.8	623.2	650.7	568.3	494.9	462.9	458.3
65°	4115.3	2740.5	462.9	435.4	490.3	586.6	618.7	540.8	472.0	444.5	439.9
67.5°	3258.3	2103.5	412.4	412.4	453.7	549.9	595.8	522.4	449.1	430.8	426.2
70°	2131.0	1264.8	375.8	380.4	426.2	517.8	568.3	499.5	421.6	417.0	407.9
72.5°	916.5	582.0	334.5	348.3	384.9	462.9	527.0	467.4	389.5	375.8	362.0
75°	421.6	352.9	302.5	311.6	343.7	407.9	476.6	430.8	362.0	339.1	325.4
77.5°	297.9	256.6	252.0	270.4	293.3	352.9	421.6	403.3	334.5	316.2	307.0
80°	220.0	197.1	210.8	229.1	242.9	325.4	398.7	371.2	307.0	279.5	265.8
82.5°	155.8	146.6	165.0	183.3	197.1	284.1	366.6	325.4	256.6	233.7	210.8
85°	91.7	96.2	114.6	123.7	137.5	210.8	307.0	261.2	197.1	151.2	146.6
87.5°	41.2	41.2	55.0	59.6	68.7	123.7	206.2	165.0	123.7	96.2	91.7
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)