

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: P675173

Luminaire Tested: **CCW-SA-2B-830-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675173
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T4FT distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

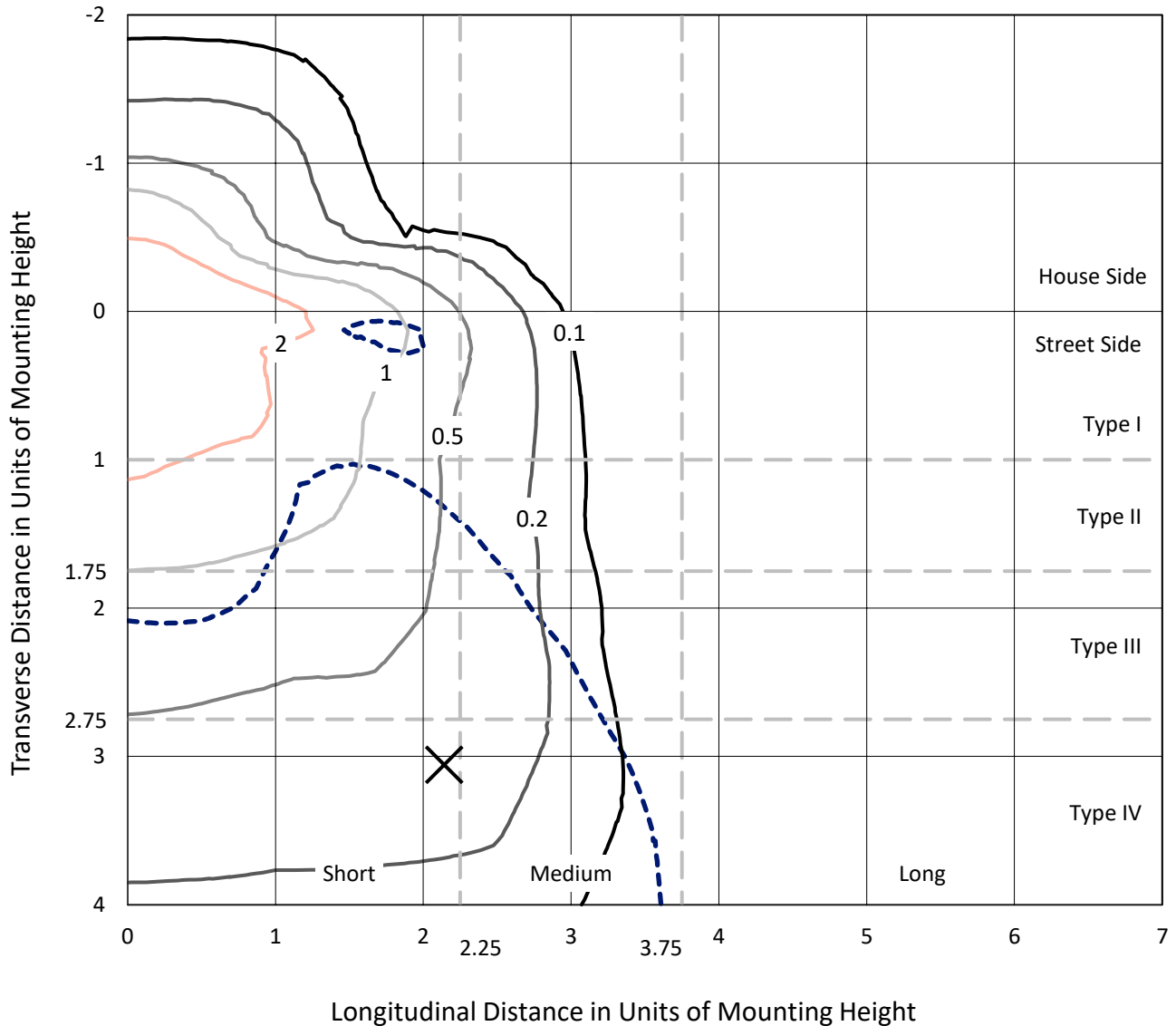
Lumens per Lamp: N/A
Luminaire Lumens: 5484.3 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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

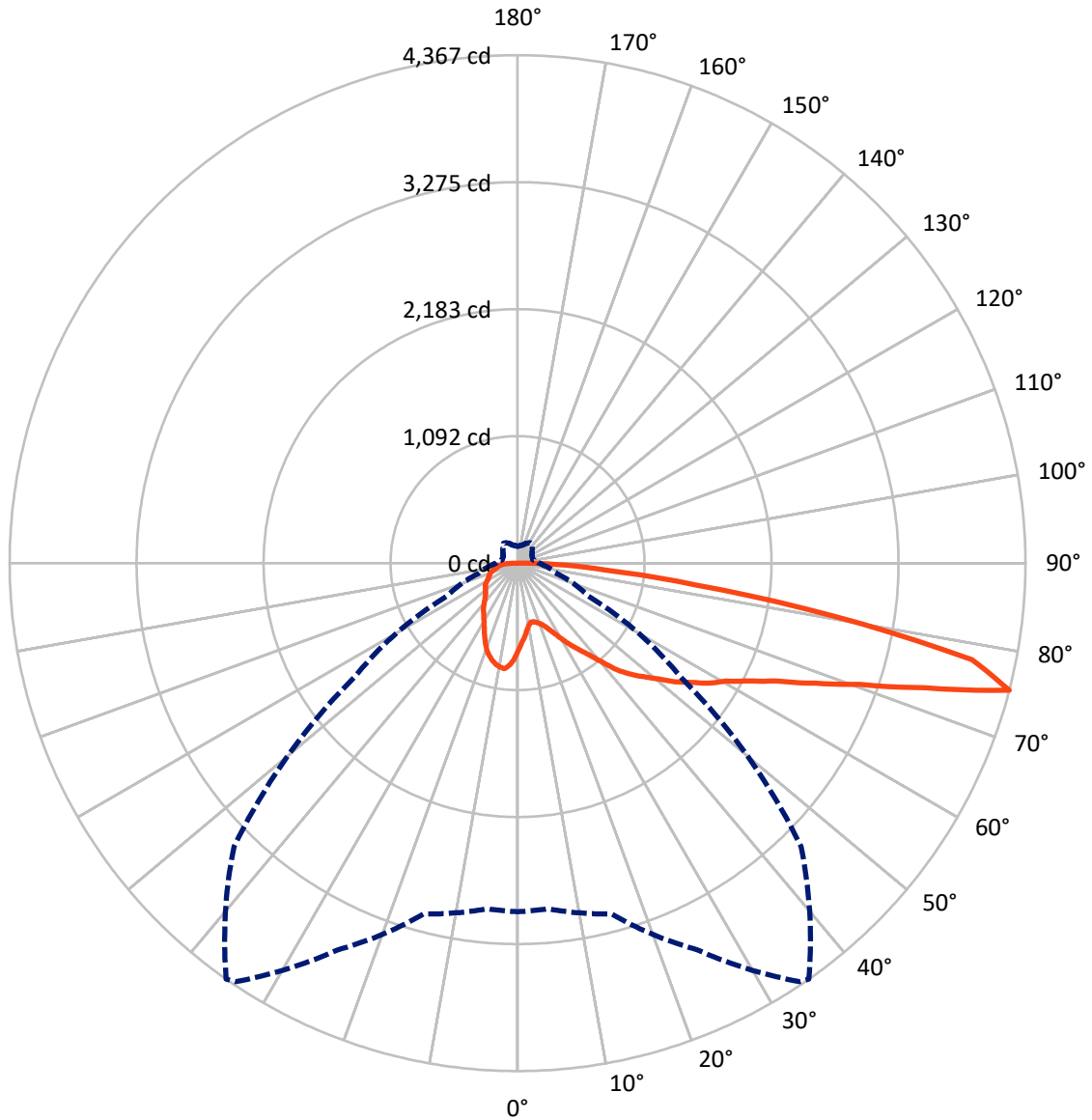
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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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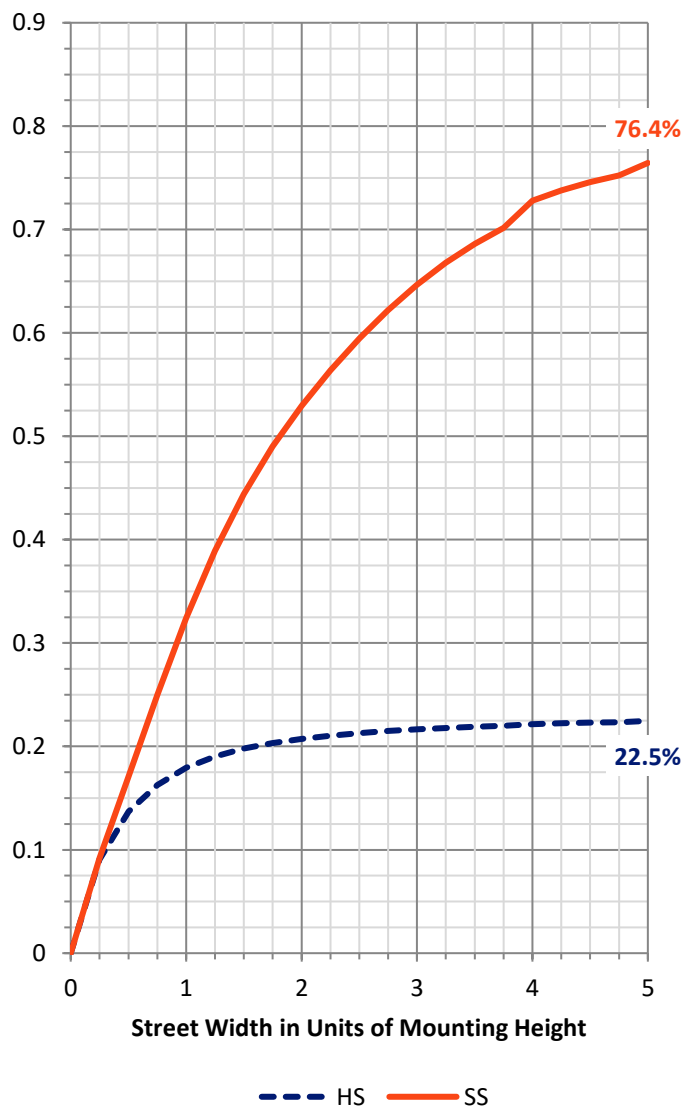
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.4	0.0	1260.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4223.9	0.0	4223.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	5484.3	0.0	5484.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.3
10°-20°	207.8	3.8
20°-30°	344.8	6.3
30°-40°	511.1	9.3
40°-50°	737.0	13.4
50°-60°	1013.4	18.5
60°-70°	1251.8	22.8
70°-80°	1145.2	20.9
80°-90°	201.6	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°	5484.3	100.0
0°-180°	5484.3	100.0



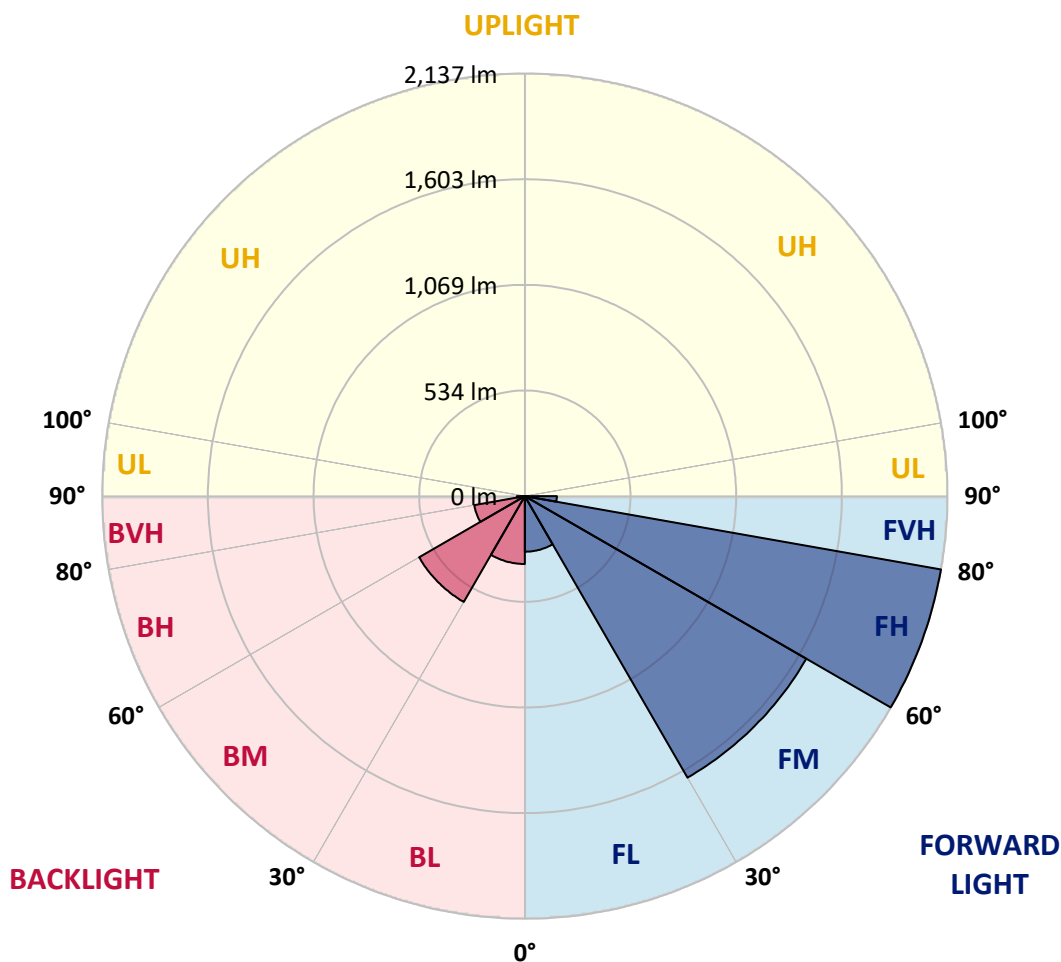
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.1	5.1			
FM (30°-60°)	1643.8	30.0			
FH (60°-80°)	2137.1	39.0			G2/5000
FVH (80°-90°)	161.8	3.0			G2/225
BL (0°-30°)	343.1	6.3	B1/500		
BM (30°-60°)	617.6	11.3	B1/1000		
BH (60°-80°)	259.9	4.7	B1/500		G1/500
BVH (80°-90°)	39.8	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4
2.5°	680.7	674.6	680.7	684.7	684.7	684.7	690.8	709.0	721.1	729.2	743.3
5°	610.0	612.0	616.0	626.1	632.2	636.2	646.3	668.6	686.7	713.0	743.3
7.5°	547.4	551.4	557.5	567.6	581.7	579.7	601.9	632.2	666.5	700.9	745.3
10°	515.1	523.1	525.2	527.2	541.3	541.3	571.6	606.0	648.4	692.8	745.3
12.5°	521.1	521.1	515.1	513.0	521.1	519.1	545.4	585.8	632.2	694.8	753.4
15°	539.3	539.3	527.2	515.1	527.2	523.1	545.4	577.7	632.2	696.8	769.6
17.5°	563.5	565.6	551.4	531.2	535.3	537.3	553.4	583.7	632.2	700.9	791.8
20°	612.0	601.9	579.7	547.4	561.5	555.5	579.7	606.0	644.3	717.0	824.1
22.5°	654.4	654.4	612.0	583.7	585.8	585.8	608.0	630.2	662.5	739.3	848.3
25°	723.1	719.1	666.5	624.1	628.2	630.2	642.3	668.6	692.8	751.4	878.6
27.5°	810.0	799.9	747.3	698.9	682.7	688.8	694.8	715.0	721.1	771.6	915.0
30°	902.9	888.7	844.3	767.5	759.5	761.5	751.4	763.5	755.4	803.9	951.3
32.5°	961.4	961.4	919.0	862.5	840.3	840.3	805.9	814.0	814.0	834.2	1016.0
35°	1011.9	1007.9	979.6	937.2	923.1	915.0	880.6	892.8	872.6	892.8	1106.9
37.5°	1088.7	1076.6	1064.5	1036.2	1007.9	1001.8	983.7	991.7	963.5	953.4	1209.9
40°	1177.6	1171.5	1159.4	1147.3	1119.0	1117.0	1096.8	1104.8	1074.6	1036.2	1312.9
42.5°	1308.9	1290.7	1252.3	1242.2	1248.3	1256.3	1248.3	1234.1	1179.6	1131.1	1424.0
45°	1440.1	1411.9	1339.2	1323.0	1369.4	1363.4	1397.7	1391.7	1302.8	1226.0	1541.1
47.5°	1525.0	1500.7	1442.2	1432.1	1452.3	1460.3	1563.4	1545.2	1403.8	1312.9	1654.2
50°	1585.6	1587.6	1510.8	1537.1	1563.4	1563.4	1692.6	1690.6	1527.0	1419.9	1801.7
52.5°	1674.4	1646.2	1613.8	1638.1	1674.4	1694.6	1854.2	1809.8	1603.7	1510.8	1967.3
55°	1720.9	1708.8	1680.5	1722.9	1799.7	1809.8	1979.4	1945.1	1690.6	1617.9	2137.0
57.5°	1739.1	1749.2	1795.6	1813.8	1920.9	1947.1	2092.5	2044.1	1771.4	1751.2	2268.3
60°	1819.9	1805.7	1868.3	1941.1	2044.1	2058.2	2233.9	2128.9	1850.2	1838.1	2310.7
62.5°	1983.5	1947.1	1981.5	2068.3	2211.7	2229.9	2383.4	2242.0	1884.5	1896.6	2308.7
65°	2221.8	2195.6	2145.1	2213.7	2415.7	2442.0	2559.1	2339.0	1874.4	1876.4	2145.1
67.5°	2502.6	2460.2	2407.6	2450.1	2696.5	2757.1	2773.2	2381.4	1803.7	1763.3	1745.1
70°	2749.0	2720.7	2686.4	2759.1	3102.5	3124.7	3039.9	2355.1	1607.8	1415.9	1163.4
72.5°	2979.3	2965.1	2985.3	3258.0	3651.9	3666.0	3290.3	2189.5	1270.5	858.4	541.3
75°	2997.4	2983.3	3122.7	3670.0	4340.6	4366.9	3445.8	1716.9	670.6	349.4	228.2
77.5°	2029.9	2072.4	2332.9	3213.6	3987.2	3993.2	2817.7	797.8	276.7	206.0	159.6
80°	498.9	553.4	878.6	1662.3	2688.4	2755.1	1543.2	268.6	181.8	157.5	119.2
82.5°	181.8	197.9	357.5	751.4	1510.8	1537.1	539.3	145.4	131.3	121.2	86.9
85°	86.9	88.9	169.7	369.6	763.5	755.4	193.9	86.9	94.9	82.8	52.5
87.5°	36.4	36.4	74.7	171.7	337.3	327.2	62.6	40.4	54.5	48.5	26.3
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°	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4
2.5°	753.4	757.4	773.6	785.7	797.8	807.9	824.1	824.1	834.2	834.2	834.2
5°	751.4	773.6	799.9	828.1	846.3	864.5	880.6	882.7	888.7	896.8	898.8
7.5°	759.5	781.7	824.1	864.5	886.7	894.8	915.0	908.9	908.9	908.9	915.0
10°	775.6	799.9	858.4	894.8	910.9	913.0	906.9	902.9	890.7	886.7	880.6
12.5°	787.7	830.2	888.7	917.0	910.9	904.9	890.7	870.5	856.4	852.4	852.4
15°	818.0	860.4	915.0	925.1	915.0	882.7	864.5	842.3	830.2	812.0	820.1
17.5°	844.3	892.8	941.2	929.1	908.9	858.4	832.2	799.9	783.7	763.5	763.5
20°	878.6	923.1	965.5	933.2	888.7	834.2	791.8	751.4	729.2	709.0	713.0
22.5°	917.0	957.4	979.6	917.0	858.4	795.8	737.2	698.9	670.6	658.5	662.5
25°	947.3	991.7	987.7	890.7	822.1	747.3	682.7	646.3	640.3	628.2	628.2
27.5°	985.7	1032.1	981.6	858.4	761.5	670.6	630.2	616.0	616.0	610.0	614.0
30°	1036.2	1068.5	967.5	812.0	684.7	601.9	581.7	589.8	603.9	597.9	599.9
32.5°	1119.0	1114.9	955.4	759.5	603.9	535.3	549.4	565.6	577.7	583.7	587.8
35°	1199.8	1173.5	941.2	688.8	529.2	502.9	515.1	533.2	555.5	561.5	563.5
37.5°	1280.6	1234.1	917.0	601.9	482.7	474.7	486.8	496.9	515.1	519.1	523.1
40°	1365.4	1274.5	874.6	517.1	444.4	444.4	452.4	454.5	464.6	470.6	474.7
42.5°	1440.1	1312.9	797.8	438.3	404.0	418.1	420.1	416.1	408.0	412.0	414.1
45°	1531.0	1355.3	709.0	381.7	373.7	391.8	395.9	379.7	365.6	357.5	353.5
47.5°	1619.9	1399.7	632.2	335.3	345.4	373.7	373.7	355.5	331.3	311.1	303.0
50°	1700.7	1444.2	569.6	307.0	317.1	359.5	363.6	329.2	303.0	278.7	274.7
52.5°	1836.0	1518.9	505.0	284.8	301.0	349.4	347.4	317.1	282.8	256.5	254.5
55°	1955.2	1593.6	420.1	262.6	284.8	335.3	341.4	305.0	258.5	234.3	230.3
57.5°	2042.1	1611.8	335.3	240.4	268.6	319.1	327.2	280.8	242.4	222.2	220.2
60°	2058.2	1541.1	272.7	222.2	246.4	296.9	303.0	266.6	230.3	214.1	210.1
62.5°	1983.5	1405.8	232.3	206.0	228.2	274.7	286.8	250.5	218.1	204.0	202.0
65°	1813.8	1207.9	204.0	191.9	216.1	258.5	272.7	238.3	208.0	195.9	193.9
67.5°	1436.1	927.1	181.8	181.8	200.0	242.4	262.6	230.3	197.9	189.9	187.8
70°	939.2	557.5	165.6	167.6	187.8	228.2	250.5	220.2	185.8	183.8	179.8
72.5°	404.0	256.5	147.4	153.5	169.7	204.0	232.3	206.0	171.7	165.6	159.6
75°	185.8	155.5	133.3	137.3	151.5	179.8	210.1	189.9	159.6	149.5	143.4
77.5°	131.3	113.1	111.1	119.2	129.3	155.5	185.8	177.7	147.4	139.4	135.3
80°	97.0	86.9	92.9	101.0	107.1	143.4	175.7	163.6	135.3	123.2	117.2
82.5°	68.7	64.6	72.7	80.8	86.9	125.2	161.6	143.4	113.1	103.0	92.9
85°	40.4	42.4	50.5	54.5	60.6	92.9	135.3	115.1	86.9	66.7	64.6
87.5°	18.2	18.2	24.2	26.3	30.3	54.5	90.9	72.7	54.5	42.4	40.4
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)