

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: P676935

Luminaire Tested: **CCW-SA-2C-850-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676935
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6344.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

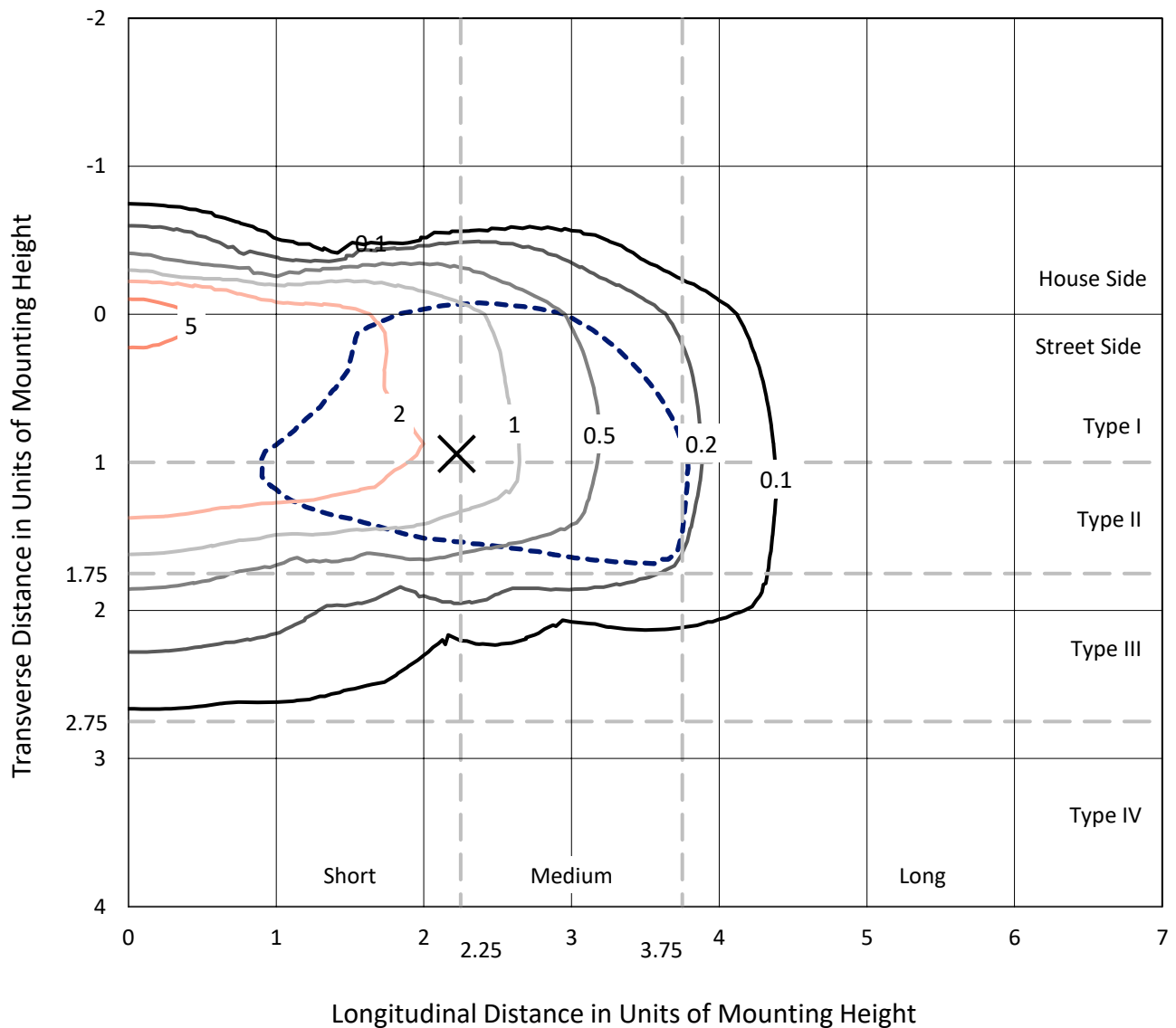
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

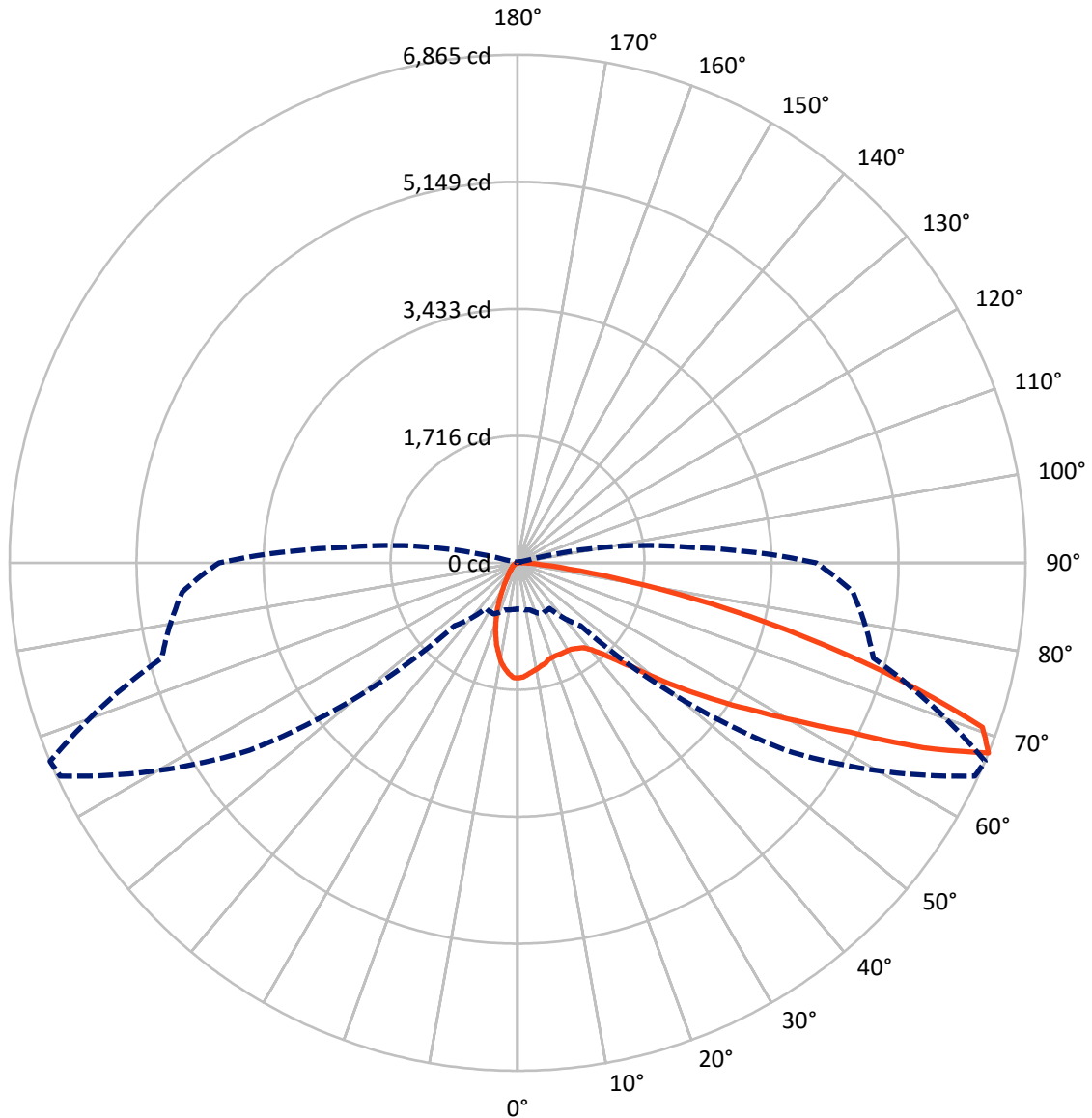
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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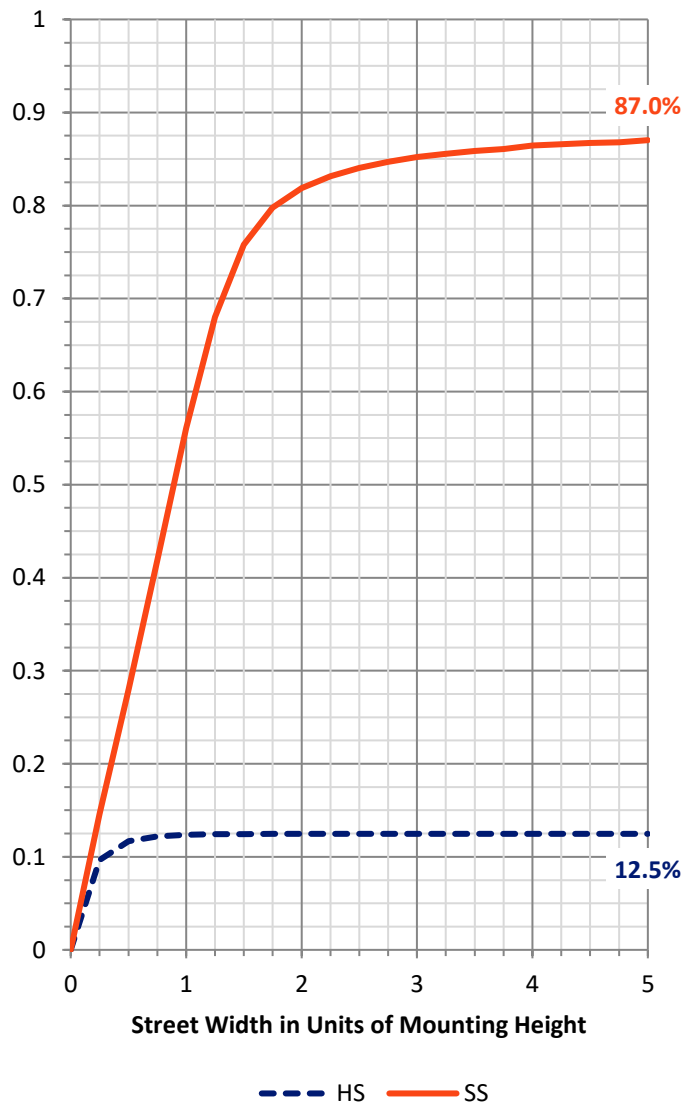
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.5	0.0	798.5
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	5546.0	0.0	5546.0
	% Fixture	87.4	0.0	87.4
Total	Lumens	6344.5	0.0	6344.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	2.1
10°-20°	291.3	4.6
20°-30°	414.2	6.5
30°-40°	603.1	9.5
40°-50°	933.4	14.7
50°-60°	1432.5	22.6
60°-70°	1552.8	24.5
70°-80°	876.1	13.8
80°-90°	110.1	1.7
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°	6344.5	100.0
0°-180°	6344.5	100.0

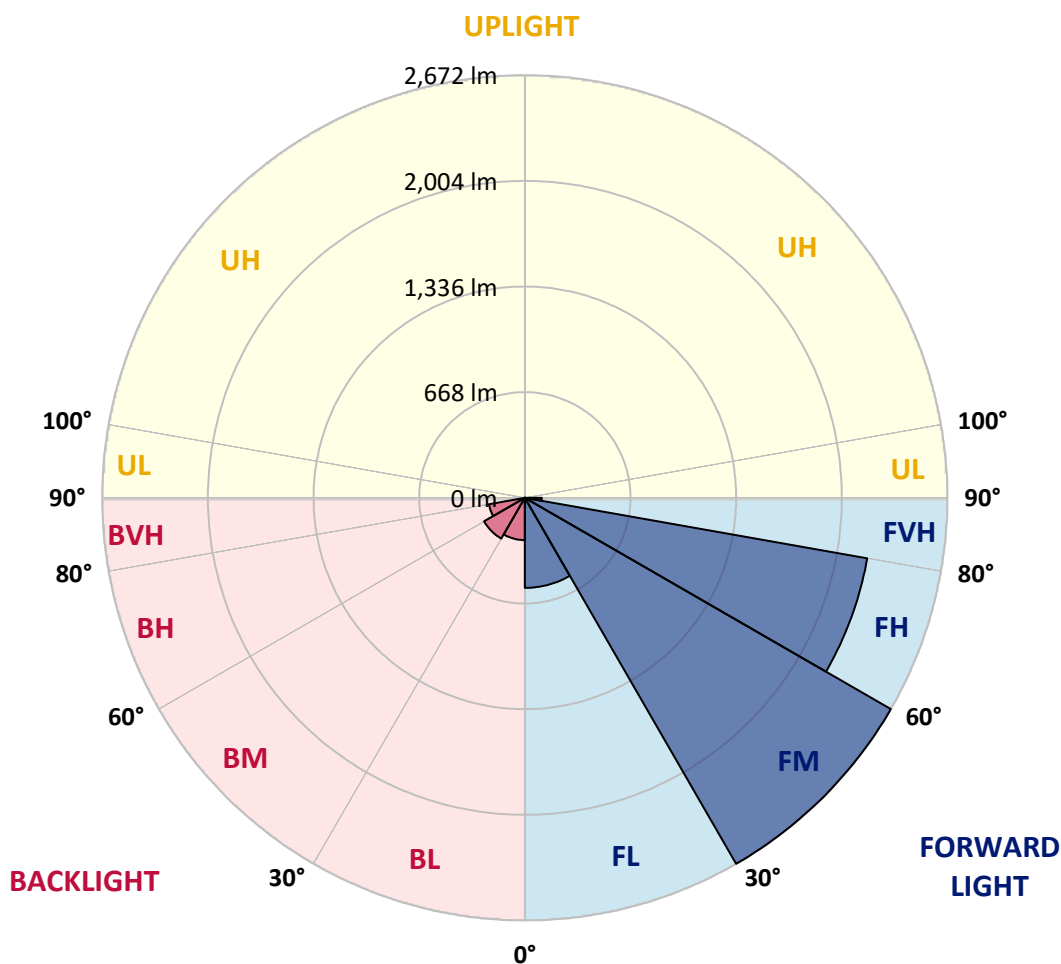


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.3	9.0			
FM (30°-60°)	2671.6	42.1			
FH (60°-80°)	2198.2	34.6			G2/5000
FVH (80°-90°)	106.9	1.7			G2/225
BL (0°-30°)	267.3	4.2	B1/500		
BM (30°-60°)	297.4	4.7	B1/1000		
BH (60°-80°)	230.6	3.6	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2
2.5°	1488.9	1496.6	1507.3	1522.6	1533.3	1527.1	1531.7	1557.7	1544.0	1556.2	1550.1
5°	1406.4	1414.0	1429.3	1427.8	1440.0	1462.9	1493.5	1527.1	1511.9	1548.5	1562.3
7.5°	1320.8	1317.7	1317.7	1349.8	1375.8	1407.9	1424.7	1479.8	1481.3	1513.4	1547.0
10°	1242.8	1252.0	1267.3	1279.5	1304.0	1349.8	1398.7	1441.5	1458.4	1522.6	1531.7
12.5°	1195.4	1200.0	1218.4	1229.1	1261.2	1305.5	1357.5	1412.5	1426.3	1492.0	1536.3
15°	1175.5	1186.2	1192.4	1212.2	1229.1	1270.3	1308.5	1371.2	1411.0	1462.9	1518.0
17.5°	1190.8	1186.2	1189.3	1195.4	1215.3	1252.0	1293.3	1355.9	1369.7	1456.8	1539.4
20°	1210.7	1212.2	1203.1	1200.0	1195.4	1230.6	1264.2	1345.2	1360.5	1456.8	1553.1
22.5°	1264.2	1247.4	1264.2	1239.8	1215.3	1230.6	1262.7	1346.8	1357.5	1455.3	1566.9
25°	1329.9	1333.0	1337.6	1285.6	1250.5	1239.8	1273.4	1351.3	1360.5	1467.5	1573.0
27.5°	1423.2	1437.0	1414.0	1388.0	1317.7	1264.2	1271.9	1348.3	1365.1	1461.4	1588.3
30°	1548.5	1537.8	1540.9	1481.3	1412.5	1328.4	1307.0	1355.9	1368.2	1469.1	1617.3
32.5°	1657.1	1644.9	1666.3	1644.9	1536.3	1420.1	1348.3	1371.2	1385.0	1487.4	1641.8
35°	1724.3	1739.6	1773.3	1796.2	1704.5	1539.4	1417.1	1412.5	1418.6	1496.6	1660.1
37.5°	1828.3	1855.8	1883.3	1941.4	1861.9	1686.1	1525.6	1466.0	1455.3	1540.9	1669.3
40°	1941.4	1933.8	2014.8	2083.6	2080.5	1892.5	1677.0	1560.8	1545.5	1611.2	1730.5
42.5°	2036.2	2028.5	2118.7	2231.9	2244.1	2091.2	1849.7	1695.3	1681.5	1719.8	1805.4
45°	2160.0	2166.1	2273.1	2407.7	2452.0	2354.2	2083.6	1887.9	1880.3	1868.0	1947.5
47.5°	2270.1	2303.7	2395.4	2554.4	2714.9	2626.3	2358.7	2169.2	2115.7	2088.2	2167.7
50°	2346.5	2377.1	2488.7	2658.4	2951.9	3008.4	2667.5	2468.8	2470.3	2403.1	2445.9
52.5°	2346.5	2345.0	2435.2	2658.4	3117.0	3407.4	3080.3	2846.4	2858.6	2788.3	2791.4
55°	2120.3	2115.7	2225.7	2462.7	3098.6	3791.1	3705.5	3324.9	3294.3	3158.2	3172.0
57.5°	1707.5	1718.2	1802.3	2086.6	2860.1	3970.0	4450.0	3863.0	3759.0	3477.7	3477.7
60°	1245.9	1236.7	1299.4	1498.1	2291.5	3902.7	5061.4	4497.4	4333.8	3742.2	3702.4
62.5°	947.8	946.2	963.1	1030.3	1453.8	3402.8	5324.4	5304.5	5038.5	4002.1	3945.5
65°	765.9	768.9	791.9	839.2	888.2	2320.5	5185.3	6267.6	6024.5	4388.8	4203.8
67.5°	625.2	632.9	660.4	762.8	752.1	1201.5	4416.3	6819.4	6865.3	4978.9	4550.9
70°	481.5	493.8	525.9	671.1	724.6	799.5	3061.9	6544.2	6666.5	5345.8	4341.4
72.5°	327.1	325.6	394.4	544.2	732.2	732.2	1704.5	5270.9	5387.0	4928.4	3771.2
75°	177.3	188.0	261.4	411.2	671.1	707.8	970.7	3856.8	4020.4	3832.4	2916.7
77.5°	96.3	97.8	145.2	269.0	558.0	675.7	648.2	2623.2	2687.4	2311.4	1597.5
80°	50.4	52.0	76.4	175.8	385.2	626.8	539.6	1563.8	1502.7	886.6	527.4
82.5°	22.9	24.5	38.2	110.1	246.1	493.8	466.2	755.2	697.1	247.6	160.5
85°	9.2	9.2	16.8	65.7	143.7	243.1	399.0	379.1	316.4	74.9	79.5
87.5°	3.1	3.1	4.6	26.0	58.1	145.2	212.5	200.3	137.6	27.5	42.8
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°	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2	1556.2
2.5°	1544.0	1560.8	1556.2	1553.1	1524.1	1521.0	1518.0	1490.5	1499.6	1476.7	1492.0
5°	1553.1	1562.3	1537.8	1492.0	1450.7	1404.8	1369.7	1345.2	1300.9	1284.1	1281.0
7.5°	1544.0	1544.0	1493.5	1420.1	1339.1	1264.2	1169.4	1102.2	1051.7	1013.5	1027.3
10°	1531.7	1513.4	1461.4	1331.5	1184.7	1071.6	935.5	836.2	761.3	736.8	721.5
12.5°	1531.7	1499.6	1383.4	1206.1	1016.6	845.4	683.3	553.4	481.5	438.7	432.6
15°	1518.0	1470.6	1326.9	1088.4	853.0	620.6	435.7	324.1	262.9	246.1	240.0
17.5°	1521.0	1464.5	1242.8	949.3	661.9	412.7	266.0	204.8	189.6	181.9	183.4
20°	1527.1	1464.5	1167.9	813.3	476.9	256.8	183.4	172.7	165.1	162.0	163.6
22.5°	1547.0	1435.4	1091.5	674.1	322.5	185.0	162.0	151.3	145.2	140.6	139.1
25°	1550.1	1430.8	1018.1	536.6	221.7	155.9	142.2	129.9	122.3	116.2	114.7
27.5°	1545.5	1411.0	915.7	399.0	166.6	139.1	120.8	108.5	97.8	93.2	91.7
30°	1562.3	1374.3	828.5	287.4	140.6	120.8	102.4	88.7	79.5	73.4	73.4
32.5°	1563.8	1342.2	732.2	204.8	128.4	107.0	87.1	71.8	62.7	59.6	59.6
35°	1565.4	1313.1	625.2	155.9	114.7	91.7	71.8	59.6	53.5	48.9	48.9
37.5°	1569.9	1291.7	527.4	131.5	102.4	78.0	59.6	48.9	42.8	41.3	41.3
40°	1579.1	1262.7	425.0	116.2	88.7	65.7	50.4	41.3	35.2	33.6	32.1
42.5°	1603.6	1255.0	339.4	103.9	79.5	55.0	41.3	33.6	29.0	26.0	24.5
45°	1704.5	1274.9	262.9	96.3	67.3	45.9	35.2	27.5	21.4	19.9	18.3
47.5°	1869.6	1340.6	207.9	85.6	56.6	38.2	29.0	21.4	16.8	15.3	13.8
50°	2120.3	1490.5	169.7	76.4	47.4	32.1	22.9	16.8	12.2	10.7	10.7
52.5°	2448.9	1692.2	146.8	67.3	38.2	27.5	18.3	12.2	9.2	7.6	7.6
55°	2785.2	1930.7	137.6	58.1	32.1	22.9	13.8	9.2	6.1	4.6	4.6
57.5°	3094.0	2085.1	133.0	47.4	27.5	16.8	10.7	6.1	3.1	1.5	1.5
60°	3286.6	2198.2	119.2	38.2	21.4	13.8	7.6	3.1	1.5	0.0	0.0
62.5°	3540.4	2312.9	97.8	29.0	15.3	9.2	4.6	1.5	0.0	0.0	0.0
65°	3875.2	2441.3	76.4	22.9	12.2	6.1	3.1	1.5	0.0	0.0	0.0
67.5°	4035.7	2374.0	52.0	16.8	7.6	3.1	1.5	0.0	0.0	0.0	0.0
70°	3714.7	1999.5	36.7	12.2	4.6	1.5	1.5	0.0	0.0	0.0	0.0
72.5°	3123.1	1566.9	27.5	7.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0
75°	2302.2	979.9	21.4	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1221.4	365.4	15.3	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	360.8	107.0	10.7	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	119.2	32.1	6.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.1	12.2	3.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.2	4.6	3.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
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)