

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: P677141

Luminaire Tested: **CCW-SA-1D-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677141
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-740-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

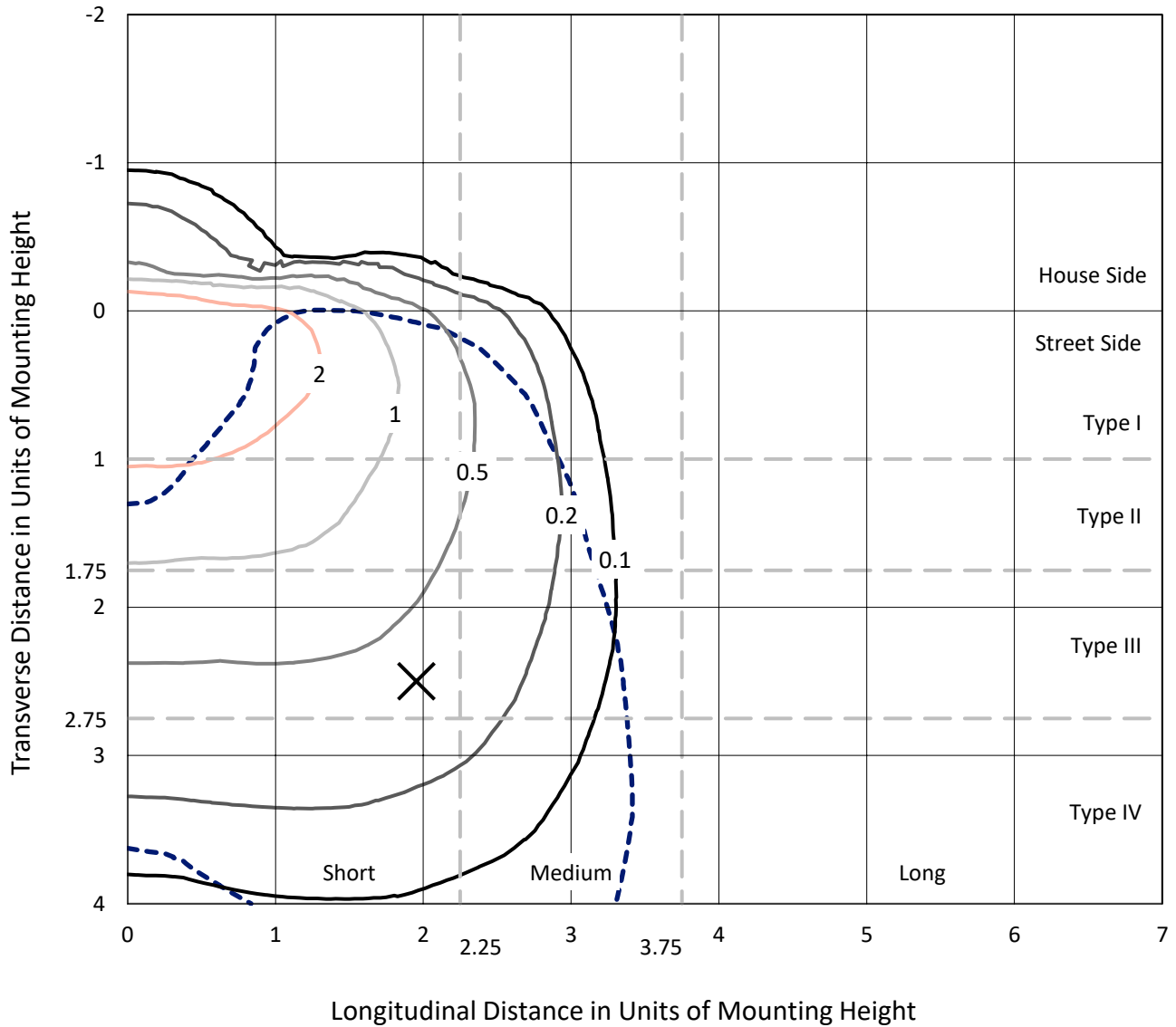
Lumens per Lamp: N/A
Luminaire Lumens: 4606.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

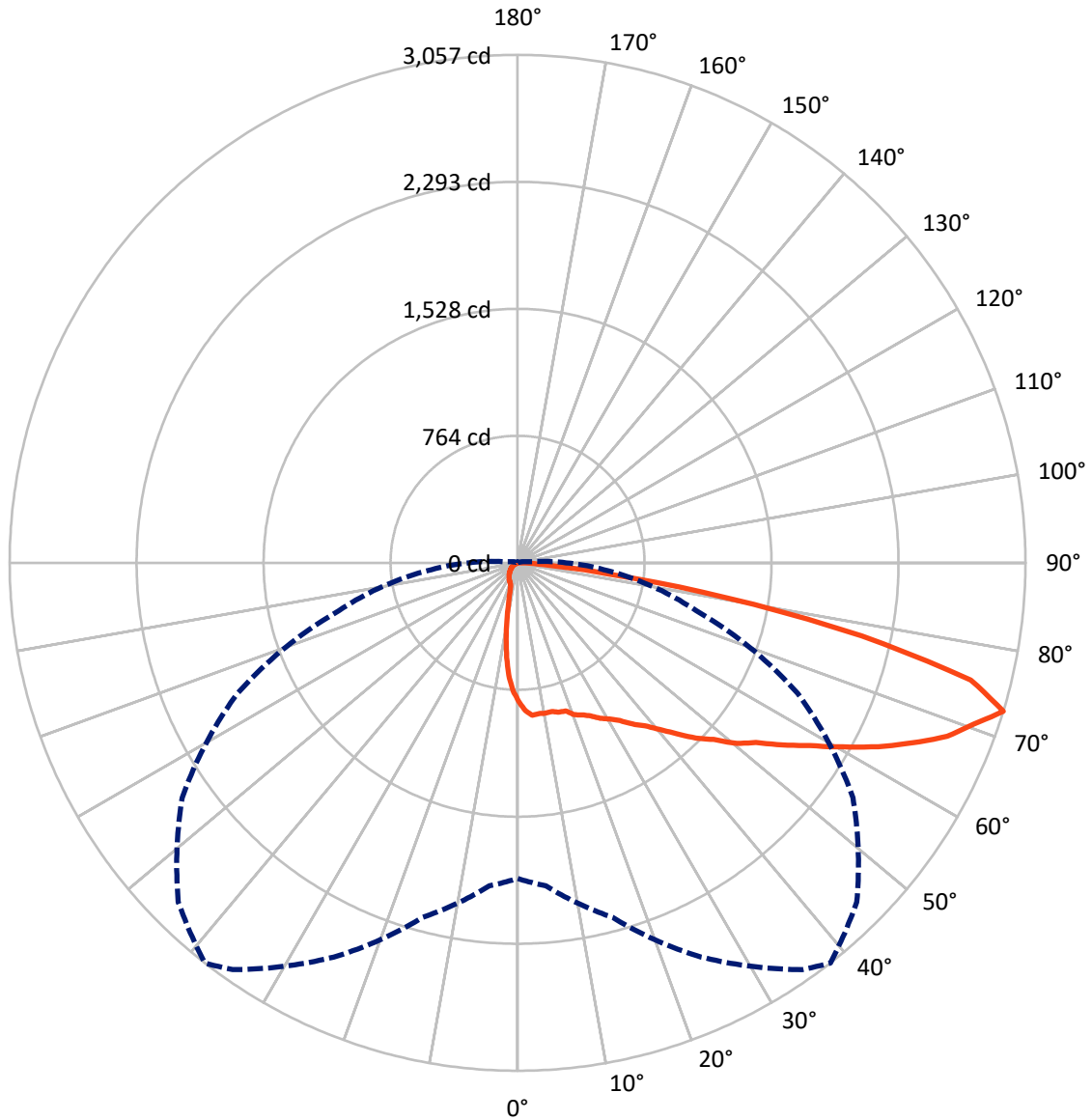
✕ Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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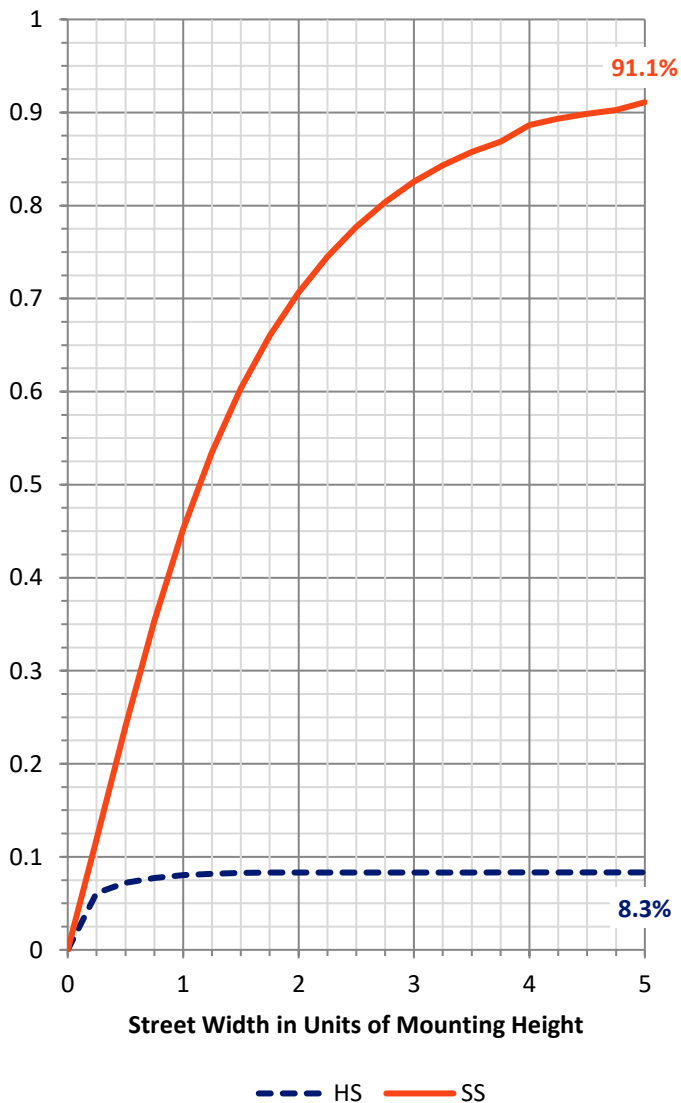
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.8	0.0	385.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4220.8	0.0	4220.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	4606.7	0.0	4606.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.6
10°-20°	178.5	3.9
20°-30°	286.2	6.2
30°-40°	432.1	9.4
40°-50°	657.6	14.3
50°-60°	925.9	20.1
60°-70°	1131.0	24.6
70°-80°	821.2	17.8
80°-90°	101.1	2.2
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°	4606.7	100.0
0°-180°	4606.7	100.0

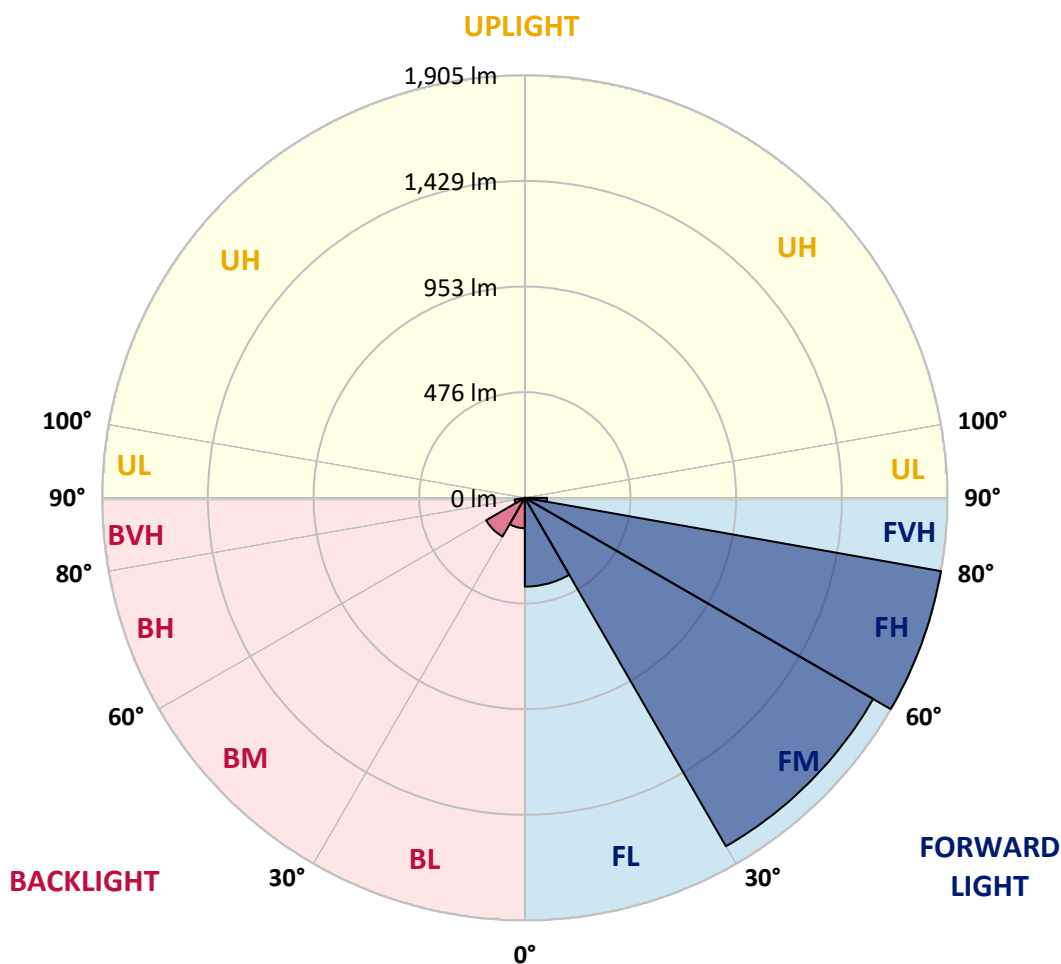


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.7	8.7			
FM (30°-60°)	1814.1	39.4			
FH (60°-80°)	1905.4	41.4			G2/5000
FVH (80°-90°)	100.6	2.2			G2/225
BL (0°-30°)	137.0	3.0	B1/500		
BM (30°-60°)	201.5	4.4	B0/220		
BH (60°-80°)	46.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1
2.5°	915.2	915.2	923.8	915.2	911.9	891.4	892.5	881.7	870.9	855.8	841.7
5°	926.0	933.6	939.0	931.4	919.5	921.7	929.2	908.7	879.5	861.2	829.8
7.5°	921.7	937.9	933.6	929.2	921.7	916.3	905.5	896.8	882.8	865.5	828.7
10°	918.4	923.8	924.9	921.7	905.5	920.6	908.7	894.7	877.4	856.8	811.5
12.5°	906.5	906.5	916.3	908.7	910.9	918.4	913.0	909.8	891.4	874.1	834.1
15°	893.6	897.9	913.0	924.9	935.7	932.5	929.2	919.5	903.3	883.8	841.7
17.5°	896.8	899.0	922.7	944.4	939.0	936.8	954.1	933.6	917.3	895.7	848.2
20°	908.7	915.2	942.2	970.3	975.7	975.7	969.2	957.3	934.6	905.5	860.1
22.5°	920.6	922.7	967.0	1002.7	1008.1	994.1	999.5	964.9	943.3	927.1	872.0
25°	966.0	961.6	1009.2	1037.3	1034.0	1020.0	1014.6	984.3	975.7	946.5	897.9
27.5°	1027.6	1009.2	1055.6	1072.9	1055.6	1060.0	1044.8	1012.4	994.1	976.8	909.8
30°	1065.4	1076.2	1101.0	1118.3	1089.1	1090.2	1082.7	1047.0	1018.9	1023.2	949.8
32.5°	1123.7	1131.3	1149.7	1157.2	1134.5	1132.4	1124.8	1096.7	1076.2	1071.9	1003.8
35°	1186.4	1200.4	1201.5	1203.7	1183.1	1191.8	1181.0	1141.0	1151.8	1159.4	1068.6
37.5°	1248.0	1235.0	1256.6	1266.3	1243.7	1243.7	1246.9	1219.9	1239.3	1262.0	1160.5
40°	1271.7	1277.1	1315.0	1307.4	1334.4	1318.2	1330.1	1323.6	1339.8	1391.7	1290.1
42.5°	1296.6	1303.1	1353.9	1367.9	1400.3	1405.7	1423.0	1424.1	1471.6	1557.0	1414.4
45°	1344.1	1333.3	1402.5	1437.1	1490.0	1505.1	1525.7	1543.0	1617.5	1718.0	1555.9
47.5°	1387.4	1372.2	1451.1	1520.3	1585.1	1588.3	1644.5	1662.9	1751.5	1866.0	1696.4
50°	1447.9	1453.3	1486.8	1605.6	1671.5	1709.3	1748.2	1808.8	1907.1	2029.2	1797.9
52.5°	1510.5	1505.1	1561.3	1678.0	1781.7	1795.8	1883.3	1951.4	2058.3	2150.2	1843.3
55°	1587.3	1593.7	1615.3	1768.8	1900.6	1934.1	2032.4	2103.7	2220.4	2202.1	1858.5
57.5°	1664.0	1657.5	1706.1	1870.3	2049.7	2074.6	2205.3	2247.4	2326.3	2236.6	1820.6
60°	1739.6	1751.5	1772.0	1984.9	2212.9	2249.6	2353.3	2374.9	2392.2	2252.8	1791.5
62.5°	1826.0	1797.9	1861.7	2105.9	2359.8	2436.5	2518.6	2433.3	2418.2	2223.7	1724.5
65°	1869.3	1877.9	1961.1	2244.2	2555.4	2611.6	2622.4	2512.2	2434.4	2158.8	1661.8
67.5°	1936.3	1948.1	2054.0	2385.7	2756.4	2787.7	2748.8	2583.5	2420.3	2074.6	1436.0
70°	1944.9	1974.1	2178.3	2533.8	2882.8	2909.8	2879.5	2631.0	2306.9	1742.8	1063.2
72.5°	1899.5	1951.4	2208.5	2618.0	2988.7	3056.7	2887.1	2463.5	1859.5	1111.8	544.6
75°	1434.9	1478.1	2021.6	2492.7	2800.7	2816.9	2534.8	1880.1	1058.9	379.3	139.4
77.5°	743.4	817.9	1349.5	1904.9	2134.0	2116.7	1764.5	1107.5	364.1	99.4	56.2
80°	426.8	445.2	590.0	1069.7	1342.0	1276.1	975.7	477.6	159.9	49.7	36.7
82.5°	210.7	236.6	317.7	478.7	671.0	552.1	366.3	286.3	89.7	27.0	32.4
85°	45.4	47.5	162.1	229.1	272.3	179.4	125.3	241.0	32.4	16.2	31.3
87.5°	32.4	31.3	45.4	102.6	75.6	46.5	74.6	126.4	7.6	7.6	6.5
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°	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1	833.1
2.5°	833.1	823.3	812.5	792.0	786.6	783.4	765.0	763.9	760.7	753.1	749.9
5°	810.4	794.2	773.6	752.0	734.7	703.4	665.6	646.1	622.4	623.4	615.9
7.5°	807.1	776.9	747.7	702.3	647.2	588.9	530.5	492.7	465.7	449.5	452.7
10°	792.0	769.3	721.8	637.5	548.9	460.3	385.7	329.6	297.1	272.3	279.8
12.5°	798.5	754.2	687.2	574.8	448.4	339.3	246.4	192.3	168.6	159.9	162.1
15°	794.2	754.2	666.7	506.8	352.2	230.1	159.9	142.6	138.3	138.3	136.1
17.5°	807.1	762.8	632.1	439.8	252.8	153.4	137.2	134.0	130.7	130.7	130.7
20°	825.5	767.2	608.3	365.2	178.3	135.1	128.6	126.4	125.3	125.3	124.3
22.5°	826.6	762.8	564.0	283.1	137.2	127.5	122.1	121.0	121.0	118.9	118.9
25°	833.1	767.2	516.5	212.9	127.5	119.9	115.6	114.5	115.6	114.5	113.5
27.5°	849.3	774.7	468.9	155.6	119.9	113.5	110.2	109.1	109.1	109.1	107.0
30°	869.8	774.7	416.0	128.6	113.5	107.0	103.7	102.6	101.6	101.6	101.6
32.5°	913.0	799.6	351.2	114.5	104.8	99.4	96.2	96.2	95.1	95.1	94.0
35°	967.0	816.9	285.3	105.9	97.2	91.8	88.6	88.6	87.5	87.5	86.4
37.5°	1034.0	860.1	218.3	99.4	89.7	84.3	81.0	81.0	81.0	80.0	80.0
40°	1129.1	904.4	162.1	90.8	82.1	76.7	74.6	73.5	72.4	72.4	70.2
42.5°	1230.7	972.4	121.0	84.3	75.6	71.3	68.1	64.8	64.8	61.6	61.6
45°	1340.9	1031.9	98.3	76.7	69.2	63.7	60.5	58.3	55.1	52.9	52.9
47.5°	1448.9	1068.6	86.4	68.1	62.7	58.3	55.1	50.8	46.5	45.4	44.3
50°	1536.5	1079.4	76.7	61.6	57.3	52.9	48.6	43.2	38.9	36.7	35.7
52.5°	1536.5	1020.0	69.2	55.1	51.9	47.5	42.1	35.7	30.3	28.1	27.0
55°	1536.5	926.0	61.6	50.8	46.5	43.2	35.7	29.2	23.8	20.5	19.4
57.5°	1513.8	812.5	55.1	45.4	41.1	36.7	30.3	22.7	17.3	14.0	14.0
60°	1451.1	693.7	47.5	40.0	35.7	30.3	23.8	16.2	10.8	7.6	7.6
62.5°	1371.2	552.1	41.1	33.5	29.2	24.9	18.4	10.8	4.3	2.2	2.2
65°	1231.8	407.3	35.7	28.1	22.7	18.4	11.9	4.3	0.0	0.0	0.0
67.5°	1016.7	272.3	28.1	22.7	19.4	13.0	7.6	1.1	0.0	0.0	0.0
70°	715.3	154.5	21.6	16.2	14.0	8.6	2.2	0.0	0.0	0.0	0.0
72.5°	293.9	68.1	15.1	11.9	9.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	80.0	30.3	9.7	6.5	5.4	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	46.5	20.5	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.7	9.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	0.0	0.0	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)