

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: P677130

Luminaire Tested: **CCW-SA-1D-735-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677130
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-735-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) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

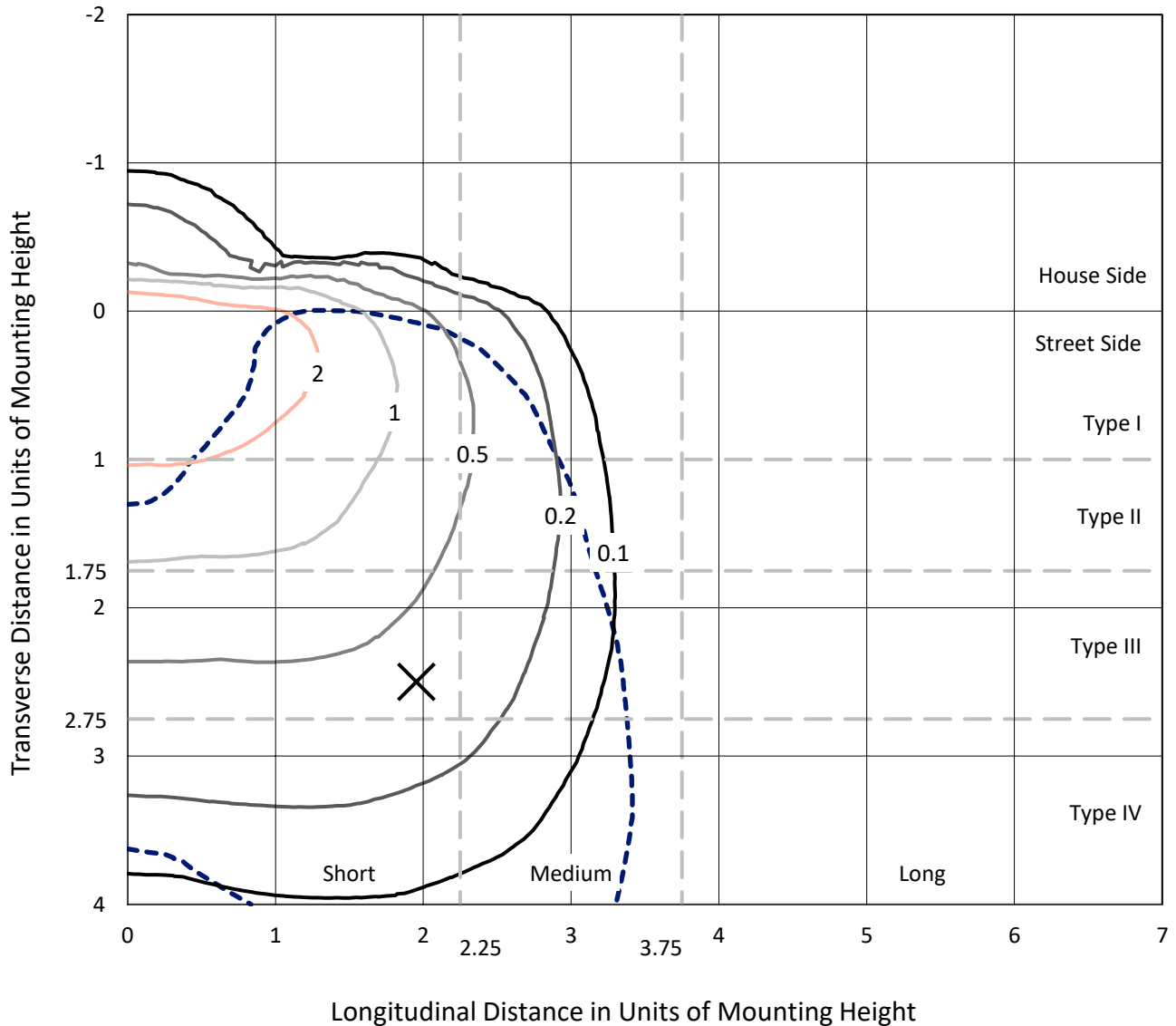
Lumens per Lamp: N/A
Luminaire Lumens: 4543.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
Input Voltage (V): 120
Input Current (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

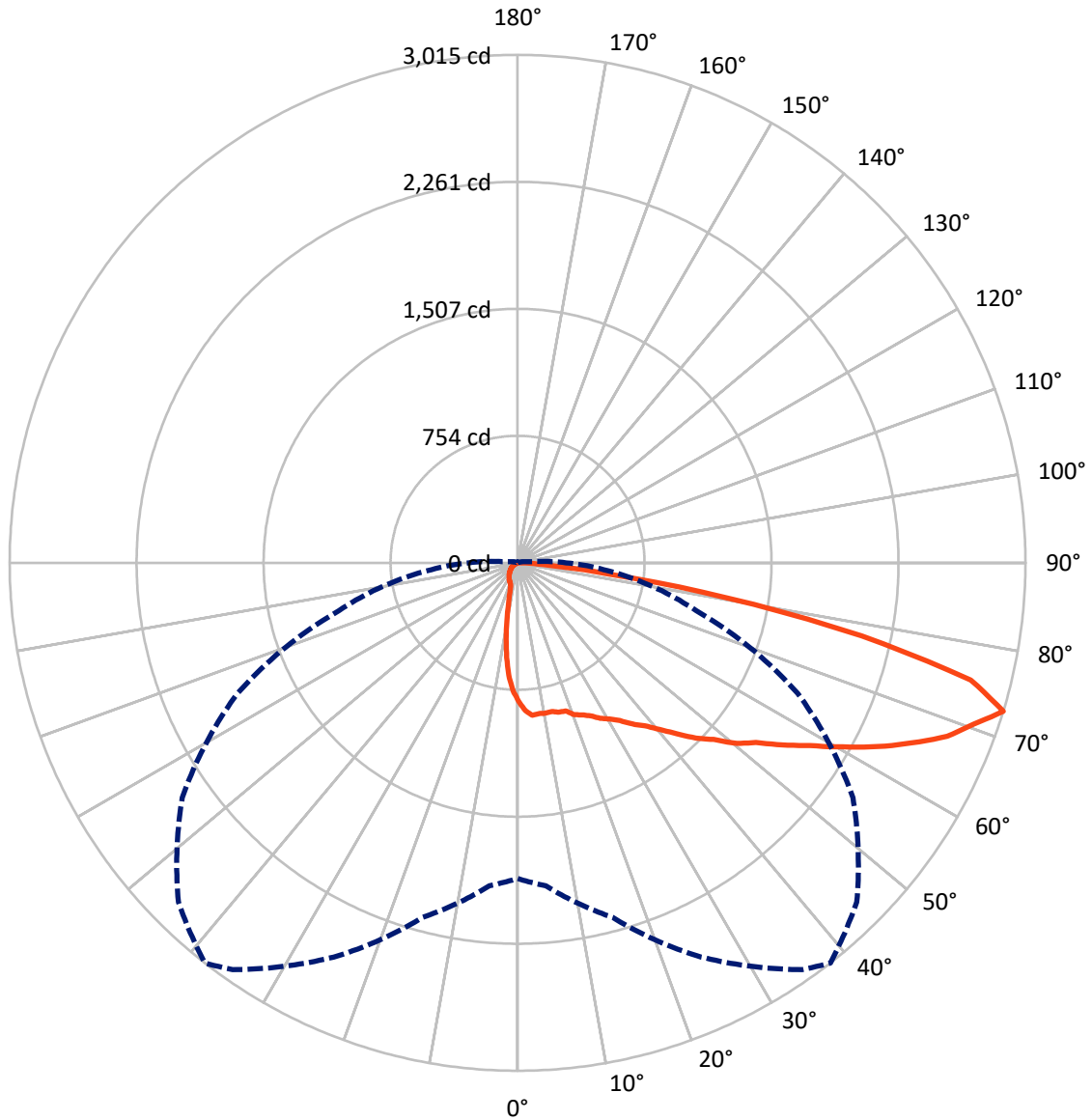
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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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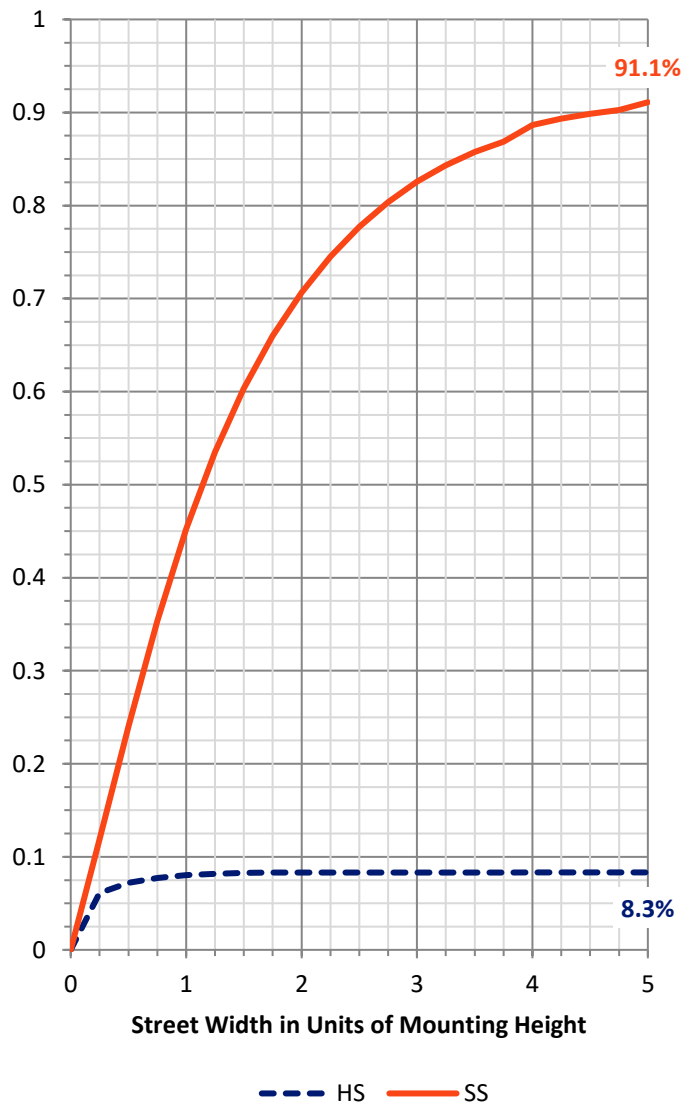
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	380.5	0.0	380.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4163.0	0.0	4163.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	4543.5	0.0	4543.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.6
10°-20°	176.1	3.9
20°-30°	282.3	6.2
30°-40°	426.2	9.4
40°-50°	648.6	14.3
50°-60°	913.2	20.1
60°-70°	1115.5	24.6
70°-80°	810.0	17.8
80°-90°	99.8	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°	4543.5	100.0
0°-180°	4543.5	100.0

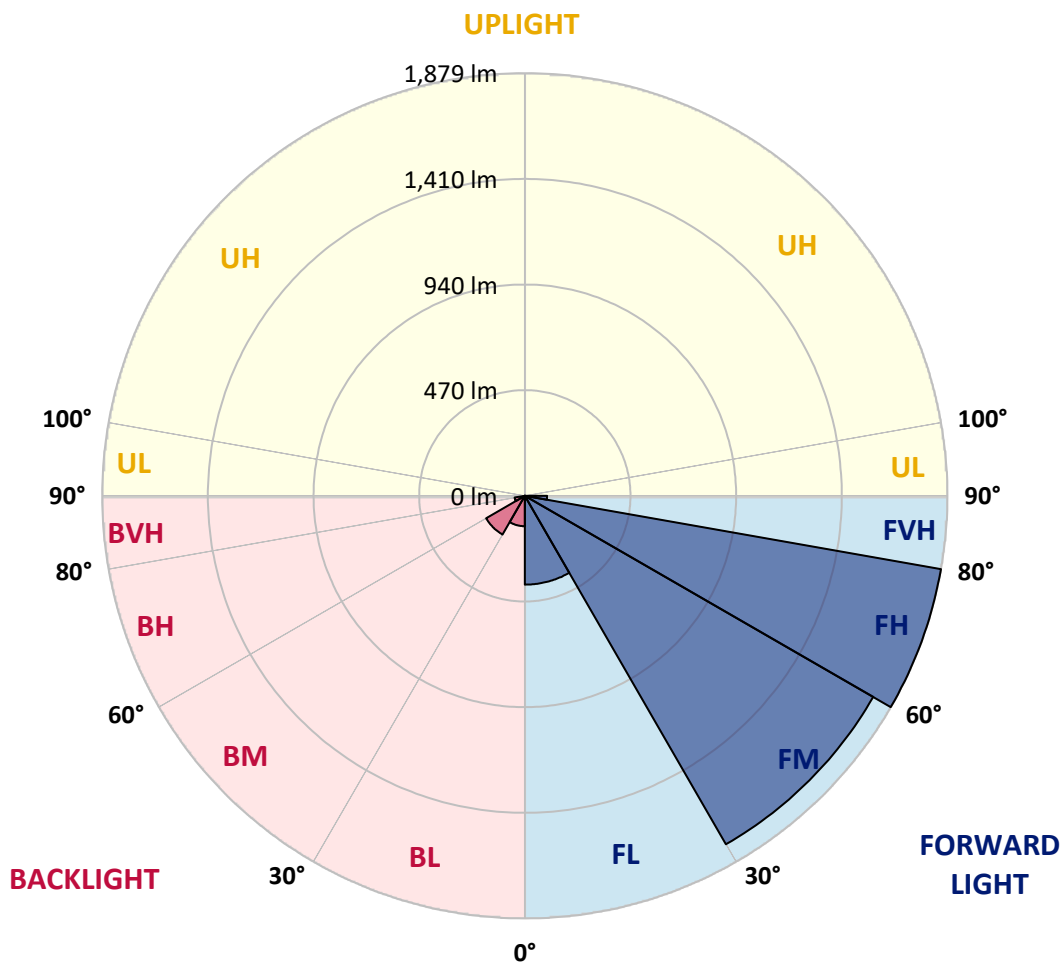


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.2	8.7			
FM (30°-60°)	1789.3	39.4			
FH (60°-80°)	1879.3	41.4			G2/5000
FVH (80°-90°)	99.2	2.2			G1/100
BL (0°-30°)	135.1	3.0	B1/500		
BM (30°-60°)	198.8	4.4	B0/220		
BH (60°-80°)	46.1	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°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	902.6	902.6	911.2	902.6	899.4	879.2	880.3	869.6	859.0	844.0	830.2
5°	913.3	920.8	926.1	918.6	906.9	909.0	916.5	896.2	867.5	849.4	818.5
7.5°	909.0	925.0	920.8	916.5	909.0	903.7	893.1	884.5	870.7	853.6	817.4
10°	905.8	911.2	912.2	909.0	893.1	908.0	896.2	882.4	865.3	845.1	800.3
12.5°	894.1	894.1	903.7	896.2	898.4	905.8	900.5	897.3	879.2	862.1	822.7
15°	881.3	885.6	900.5	912.2	922.9	919.7	916.5	906.9	890.9	871.7	830.2
17.5°	884.5	886.7	910.1	931.4	926.1	924.0	941.0	920.8	904.8	883.5	836.6
20°	896.2	902.6	929.3	957.0	962.3	962.3	955.9	944.2	921.8	893.1	848.3
22.5°	908.0	910.1	953.8	989.0	994.3	980.4	985.8	951.7	930.4	914.4	860.0
25°	952.7	948.5	995.4	1023.1	1019.9	1006.0	1000.7	970.8	962.3	933.5	885.6
27.5°	1013.5	995.4	1041.2	1058.2	1041.2	1045.4	1030.5	998.6	980.4	963.4	897.3
30°	1050.8	1061.4	1085.9	1103.0	1074.2	1075.3	1067.8	1032.7	1005.0	1009.2	936.7
32.5°	1108.3	1115.8	1133.9	1141.4	1119.0	1116.8	1109.4	1081.7	1061.4	1057.2	990.0
35°	1170.1	1184.0	1185.1	1187.2	1166.9	1175.5	1164.8	1125.4	1136.0	1143.5	1054.0
37.5°	1230.9	1218.1	1239.4	1249.0	1226.6	1226.6	1229.8	1203.2	1222.4	1244.7	1144.6
40°	1254.3	1259.7	1297.0	1289.5	1316.1	1300.1	1311.9	1305.5	1321.5	1372.6	1272.4
42.5°	1278.8	1285.2	1335.3	1349.2	1381.1	1386.5	1403.5	1404.6	1451.5	1535.7	1395.0
45°	1325.7	1315.1	1383.3	1417.4	1469.6	1484.5	1504.8	1521.8	1595.3	1694.5	1534.6
47.5°	1368.4	1353.4	1431.2	1499.4	1563.4	1566.6	1622.0	1640.1	1727.5	1840.5	1673.1
50°	1428.0	1433.4	1466.4	1583.6	1648.6	1685.9	1724.3	1784.0	1881.0	2001.4	1773.3
52.5°	1489.8	1484.5	1539.9	1655.0	1757.3	1771.2	1857.5	1924.6	2030.1	2120.7	1818.1
55°	1565.5	1571.9	1593.2	1744.5	1874.6	1907.6	2004.6	2074.9	2190.0	2171.9	1833.0
57.5°	1641.2	1634.8	1682.7	1844.7	2021.6	2046.1	2175.1	2216.6	2294.4	2206.0	1795.7
60°	1715.8	1727.5	1747.7	1957.7	2182.5	2218.8	2321.1	2342.4	2359.4	2222.0	1766.9
62.5°	1801.0	1773.3	1836.2	2077.0	2327.5	2403.1	2484.1	2399.9	2385.0	2193.2	1700.8
65°	1843.7	1852.2	1934.2	2213.4	2520.4	2575.8	2586.4	2477.7	2401.0	2129.3	1639.0
67.5°	1909.7	1921.4	2025.9	2353.1	2718.6	2749.5	2711.1	2548.1	2387.2	2046.1	1416.3
70°	1918.3	1947.0	2148.4	2499.1	2843.3	2869.9	2840.1	2595.0	2275.3	1719.0	1048.6
72.5°	1873.5	1924.6	2178.3	2582.2	2947.7	3014.9	2847.5	2429.8	1834.1	1096.6	537.1
75°	1415.2	1457.9	1993.9	2458.6	2762.3	2778.3	2500.1	1854.3	1044.4	374.1	137.5
77.5°	733.2	806.7	1331.1	1878.8	2104.7	2087.7	1740.3	1092.3	359.1	98.0	55.4
80°	420.9	439.1	581.9	1055.0	1323.6	1258.6	962.3	471.0	157.7	49.0	36.2
82.5°	207.8	233.4	313.3	472.1	661.8	544.6	361.3	282.4	88.5	26.6	32.0
85°	44.8	46.9	159.9	225.9	268.6	176.9	123.6	237.7	32.0	16.0	30.9
87.5°	32.0	30.9	44.8	101.2	74.6	45.8	73.5	124.7	7.5	7.5	6.4
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°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	821.7	812.1	801.4	781.2	775.8	772.6	754.5	753.4	750.2	742.8	739.6
5°	799.3	783.3	763.0	741.7	724.7	693.8	656.5	637.3	613.8	614.9	607.4
7.5°	796.1	766.2	737.5	692.7	638.4	580.8	523.3	486.0	459.3	443.3	446.5
10°	781.2	758.8	711.9	628.8	541.4	454.0	380.5	325.0	293.1	268.6	276.0
12.5°	787.5	743.9	677.8	566.9	442.3	334.6	243.0	189.7	166.2	157.7	159.9
15°	783.3	743.9	657.5	499.8	347.4	227.0	157.7	140.7	136.4	136.4	134.3
17.5°	796.1	752.4	623.4	433.7	249.4	151.3	135.3	132.1	128.9	128.9	128.9
20°	814.2	756.6	600.0	360.2	175.8	133.2	126.8	124.7	123.6	123.6	122.6
22.5°	815.3	752.4	556.3	279.2	135.3	125.8	120.4	119.4	119.4	117.2	117.2
25°	821.7	756.6	509.4	209.9	125.8	118.3	114.0	113.0	114.0	113.0	111.9
27.5°	837.6	764.1	462.5	153.5	118.3	111.9	108.7	107.6	107.6	107.6	105.5
30°	857.9	764.1	410.3	126.8	111.9	105.5	102.3	101.2	100.2	100.2	100.2
32.5°	900.5	788.6	346.4	113.0	103.4	98.0	94.8	94.8	93.8	93.8	92.7
35°	953.8	805.7	281.3	104.4	95.9	90.6	87.4	87.4	86.3	86.3	85.3
37.5°	1019.9	848.3	215.3	98.0	88.5	83.1	79.9	79.9	79.9	78.9	78.9
40°	1113.7	892.0	159.9	89.5	81.0	75.7	73.5	72.5	71.4	71.4	69.3
42.5°	1213.8	959.1	119.4	83.1	74.6	70.3	67.1	63.9	63.9	60.7	60.7
45°	1322.5	1017.7	97.0	75.7	68.2	62.9	59.7	57.5	54.4	52.2	52.2
47.5°	1429.1	1054.0	85.3	67.1	61.8	57.5	54.4	50.1	45.8	44.8	43.7
50°	1515.4	1064.6	75.7	60.7	56.5	52.2	48.0	42.6	38.4	36.2	35.2
52.5°	1515.4	1006.0	68.2	54.4	51.2	46.9	41.6	35.2	29.8	27.7	26.6
55°	1515.4	913.3	60.7	50.1	45.8	42.6	35.2	28.8	23.4	20.2	19.2
57.5°	1493.0	801.4	54.4	44.8	40.5	36.2	29.8	22.4	17.1	13.9	13.9
60°	1431.2	684.2	46.9	39.4	35.2	29.8	23.4	16.0	10.7	7.5	7.5
62.5°	1352.4	544.6	40.5	33.0	28.8	24.5	18.1	10.7	4.3	2.1	2.1
65°	1214.9	401.8	35.2	27.7	22.4	18.1	11.7	4.3	0.0	0.0	0.0
67.5°	1002.8	268.6	27.7	22.4	19.2	12.8	7.5	1.1	0.0	0.0	0.0
70°	705.5	152.4	21.3	16.0	13.9	8.5	2.1	0.0	0.0	0.0	0.0
72.5°	289.9	67.1	14.9	11.7	9.6	4.3	0.0	0.0	0.0	0.0	0.0
75°	78.9	29.8	9.6	6.4	5.3	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	45.8	20.2	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.2	9.6	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.2	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.9	2.1	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)