

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: P676715

Luminaire Tested: **CCW-SA-2D-740-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676715
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

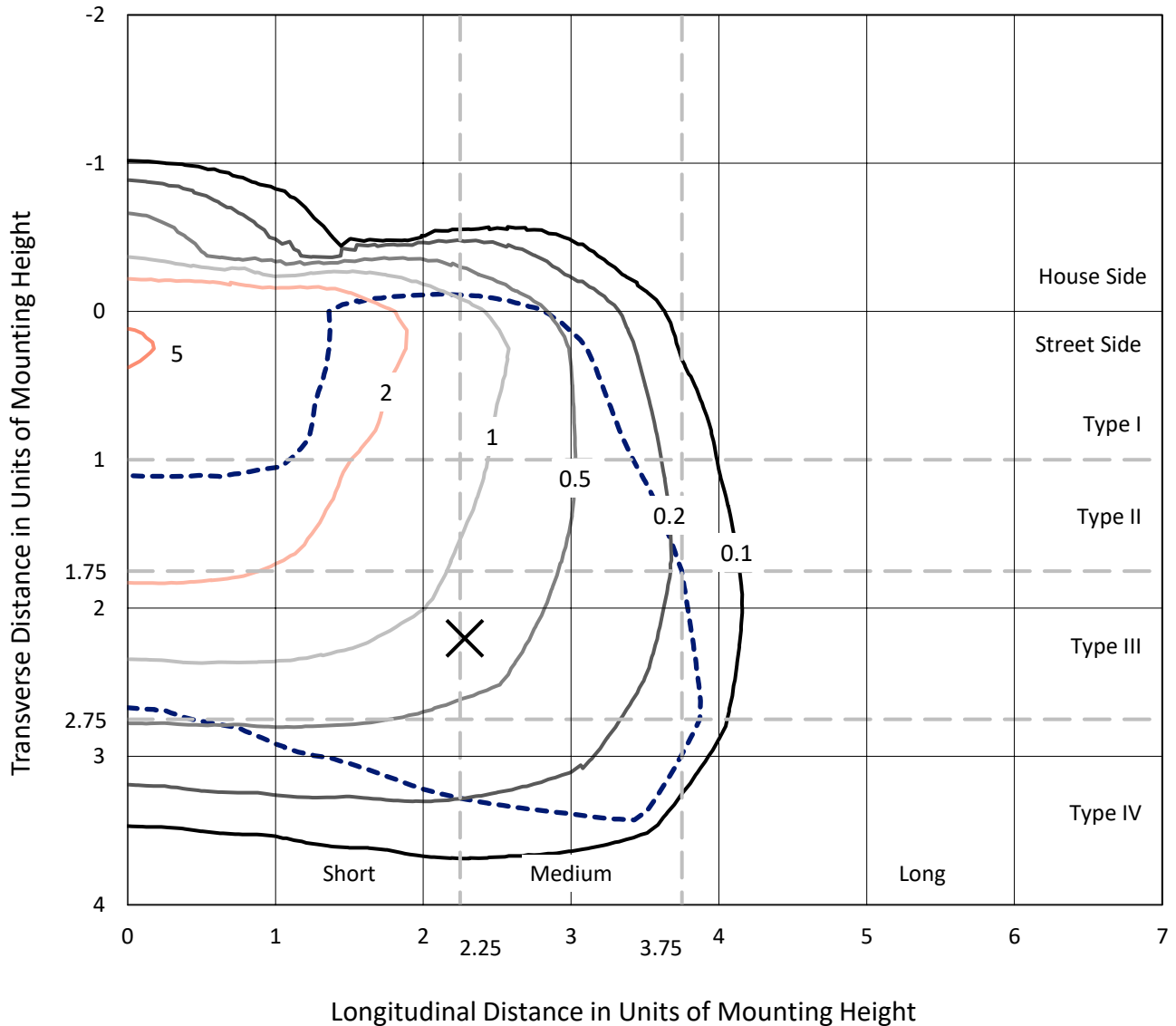
Lumens per Lamp: N/A
Luminaire Lumens: 8046.5 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

REPORT NUMBER: P676715
 CATALOG NUMBER: CCW-SA-2D-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

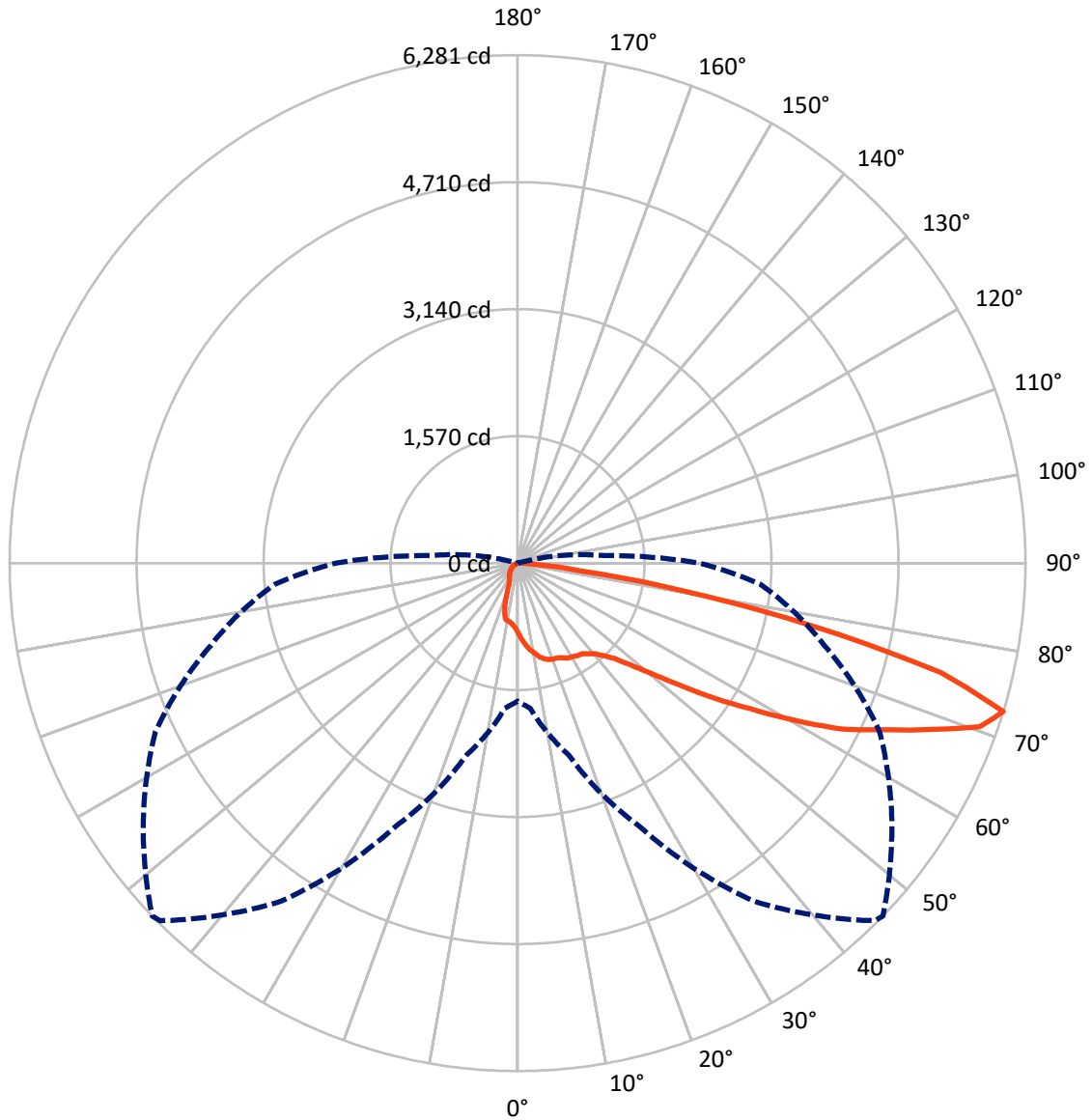
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P676715
CATALOG NUMBER: CCW-SA-2D-740-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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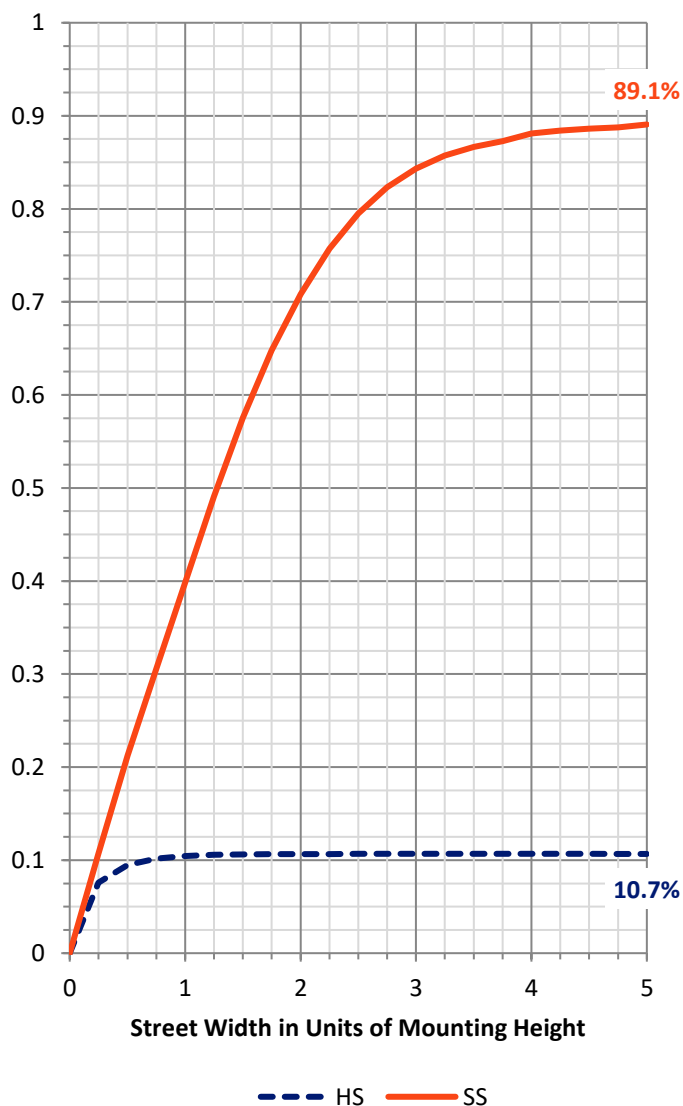
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.3	0.0	866.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	7180.2	0.0	7180.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	8046.5	0.0	8046.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	1.1
10°-20°	259.9	3.2
20°-30°	406.8	5.1
30°-40°	569.7	7.1
40°-50°	939.5	11.7
50°-60°	1688.6	21.0
60°-70°	2447.4	30.4
70°-80°	1527.4	19.0
80°-90°	121.1	1.5
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°	8046.5	100.0
0°-180°	8046.5	100.0

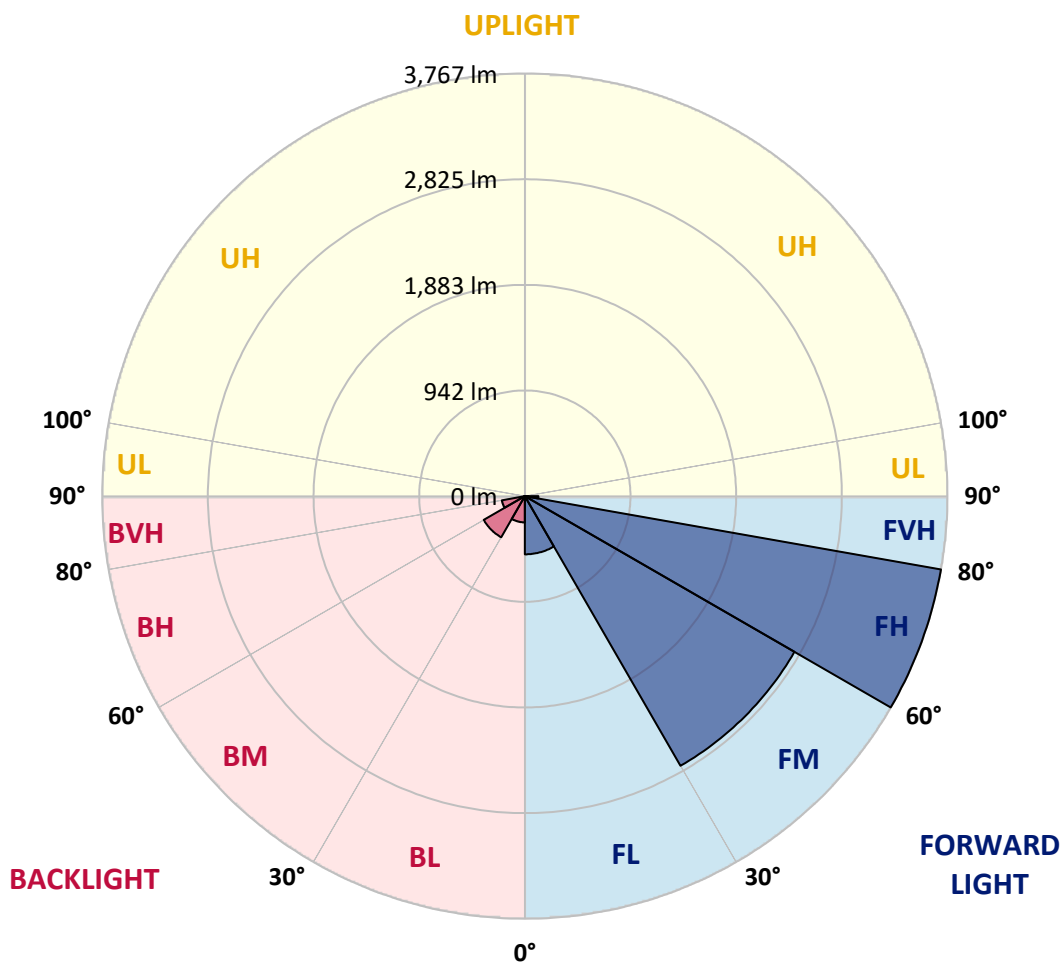


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 CATALOG NUMBER: CCW-SA-2D-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.6	6.4			
FM (30°-60°)	2774.6	34.5			
FH (60°-80°)	3766.5	46.8			G2/5000
FVH (80°-90°)	120.4	1.5			G2/225
BL (0°-30°)	234.1	2.9	B1/500		
BM (30°-60°)	423.2	5.3	B1/1000		
BH (60°-80°)	208.3	2.6	B1/500		G1/500
BVH (80°-90°)	0.7	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 Medium





REPORT NUMBER: P676715

CATALOG NUMBER: CCW-SA-2D-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	962.6	958.5	964.7	962.6	938.0	942.1	940.0	923.6	894.9	878.4	868.2
5°	1073.4	1083.7	1075.5	1057.0	1042.6	1013.9	1009.8	983.1	938.0	909.2	878.4
7.5°	1188.4	1188.4	1171.9	1143.2	1112.4	1081.6	1077.5	1032.4	993.4	944.1	901.0
10°	1274.6	1264.3	1252.0	1221.2	1186.3	1145.3	1124.7	1091.9	1048.8	989.3	933.9
12.5°	1350.5	1334.1	1313.6	1268.4	1227.4	1182.2	1186.3	1133.0	1104.2	1050.9	968.8
15°	1393.6	1379.2	1360.8	1319.7	1256.1	1235.6	1227.4	1194.5	1143.2	1089.9	1011.9
17.5°	1403.9	1393.6	1369.0	1315.6	1280.7	1256.1	1254.0	1215.0	1192.5	1147.3	1061.1
20°	1383.4	1364.9	1346.4	1311.5	1278.7	1270.5	1264.3	1264.3	1235.6	1176.1	1091.9
22.5°	1348.5	1327.9	1317.7	1297.1	1270.5	1268.4	1272.5	1268.4	1245.8	1206.8	1124.7
25°	1321.8	1311.5	1295.1	1288.9	1272.5	1303.3	1297.1	1291.0	1284.8	1239.7	1176.1
27.5°	1330.0	1327.9	1315.6	1291.0	1278.7	1311.5	1330.0	1332.0	1330.0	1284.8	1223.3
30°	1334.1	1323.8	1311.5	1305.4	1309.5	1342.3	1342.3	1387.5	1369.0	1323.8	1270.5
32.5°	1381.3	1375.1	1334.1	1319.7	1321.8	1360.8	1362.8	1408.0	1401.8	1371.0	1311.5
35°	1481.9	1440.8	1381.3	1340.2	1340.2	1391.6	1375.1	1440.8	1457.2	1408.0	1340.2
37.5°	1631.7	1600.9	1494.2	1401.8	1366.9	1403.9	1420.3	1457.2	1506.5	1463.4	1397.7
40°	1929.3	1923.1	1771.3	1572.2	1434.7	1467.5	1473.7	1531.1	1564.0	1504.4	1486.0
42.5°	2364.4	2333.6	2192.0	1878.0	1557.8	1543.4	1566.0	1603.0	1681.0	1631.7	1586.5
45°	2789.3	2774.9	2633.3	2282.3	1781.5	1695.3	1683.0	1748.7	1863.6	1810.3	1775.4
47.5°	3097.1	3068.4	2988.4	2692.8	2109.9	1873.9	1882.1	1947.8	2093.5	2052.4	2062.7
50°	3333.2	3318.8	3234.7	3072.5	2524.5	2155.1	2138.7	2204.3	2401.4	2428.0	2456.8
52.5°	3591.8	3618.5	3505.6	3368.1	3015.0	2532.7	2495.8	2518.4	2772.9	2834.4	2914.5
55°	3840.1	3883.2	3770.3	3751.9	3528.2	2951.4	2945.3	2891.9	3220.3	3228.5	3271.6
57.5°	4002.3	3987.9	3979.7	4080.3	4041.3	3431.7	3400.9	3347.5	3645.1	3591.8	3721.1
60°	4014.6	4055.6	4193.2	4441.5	4511.3	3996.1	3951.0	3805.2	4012.5	3885.3	4131.6
62.5°	4107.0	4139.8	4394.3	4737.1	4827.4	4492.8	4523.6	4154.2	4326.6	4226.0	4587.2
65°	3873.0	3975.6	4486.7	4966.9	5242.0	4995.7	4964.9	4603.6	4648.8	4554.4	5036.7
67.5°	3661.6	3700.6	4234.2	5036.7	5570.3	5500.6	5488.2	5001.8	4981.3	4806.8	5164.0
70°	2976.1	3023.3	3550.7	4679.6	5681.2	6089.6	6060.9	5560.1	5207.1	4669.3	4511.3
72.5°	1705.6	1800.0	2460.9	3604.1	5104.4	6253.8	6280.5	5650.4	4940.2	3926.3	3013.0
75°	558.3	584.9	1022.1	2042.2	3817.6	5455.4	5408.2	4856.1	3985.9	2592.2	1360.8
77.5°	188.8	192.9	301.7	738.9	2116.1	3686.2	3712.9	3470.7	2448.6	1077.5	375.6
80°	96.5	102.6	147.8	277.1	870.2	2007.3	2050.4	1978.6	1026.2	318.1	90.3
82.5°	45.2	47.2	86.2	153.9	398.2	788.1	788.1	866.1	363.3	178.6	36.9
85°	16.4	16.4	45.2	88.3	168.3	262.7	264.8	266.8	190.9	133.4	16.4
87.5°	6.2	6.2	22.6	36.9	61.6	80.0	80.0	63.6	96.5	88.3	6.2
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°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	864.1	851.8	841.5	827.1	808.7	798.4	800.5	788.1	788.1	782.0	779.9
5°	864.1	851.8	825.1	800.5	784.0	763.5	753.2	745.0	745.0	740.9	743.0
7.5°	870.2	851.8	814.8	782.0	755.3	734.8	718.4	716.3	712.2	701.9	710.1
10°	907.2	880.5	818.9	773.8	743.0	720.4	691.7	683.5	671.2	652.7	654.7
12.5°	938.0	903.1	847.7	786.1	747.1	710.1	644.5	572.6	541.8	509.0	511.1
15°	983.1	933.9	857.9	802.5	747.1	628.0	509.0	416.6	367.4	342.8	342.8
17.5°	1007.8	966.7	886.7	812.8	687.6	511.1	361.2	281.2	273.0	277.1	277.1
20°	1059.1	1003.6	919.5	821.0	589.1	363.3	264.8	256.6	260.7	268.9	266.8
22.5°	1091.9	1036.5	944.1	784.0	455.6	260.7	248.3	244.2	248.3	258.6	258.6
25°	1118.6	1083.7	983.1	693.7	322.2	236.0	231.9	236.0	240.1	244.2	250.4
27.5°	1184.3	1124.7	1009.8	576.7	231.9	219.6	223.7	225.8	225.8	231.9	234.0
30°	1227.4	1180.2	1030.3	445.4	205.2	203.2	207.3	209.3	211.4	217.6	219.6
32.5°	1268.4	1252.0	1003.6	301.7	192.9	188.8	186.8	188.8	197.0	203.2	201.1
35°	1327.9	1317.7	964.7	209.3	180.6	172.4	168.3	170.4	176.5	182.7	180.6
37.5°	1399.8	1410.0	870.2	182.7	168.3	158.0	149.8	149.8	151.9	158.0	160.1
40°	1483.9	1510.6	759.4	170.4	160.1	147.8	139.6	129.3	127.3	125.2	127.3
42.5°	1637.9	1668.6	634.2	162.1	147.8	133.4	121.1	108.8	98.5	92.4	92.4
45°	1853.4	1828.7	470.0	153.9	141.6	121.1	102.6	88.3	73.9	67.7	67.7
47.5°	2151.0	2066.8	322.2	145.7	131.4	106.7	86.2	67.7	55.4	49.3	49.3
50°	2563.5	2286.4	209.3	137.5	125.2	92.4	69.8	49.3	41.0	39.0	41.0
52.5°	2953.5	2510.1	166.2	127.3	112.9	80.0	53.4	41.0	36.9	34.9	34.9
55°	3312.7	2623.0	147.8	117.0	102.6	65.7	45.2	34.9	32.8	30.8	30.8
57.5°	3616.4	2662.0	127.3	102.6	82.1	51.3	36.9	30.8	26.7	24.6	24.6
60°	3879.1	2672.3	98.5	82.1	59.5	39.0	30.8	26.7	22.6	18.5	18.5
62.5°	4088.5	2600.5	69.8	57.5	41.0	30.8	26.7	18.5	12.3	8.2	6.2
65°	4254.7	2456.8	47.2	39.0	26.7	22.6	16.4	8.2	2.1	0.0	0.0
67.5°	4059.7	2130.4	36.9	28.7	18.5	14.4	8.2	2.1	0.0	0.0	0.0
70°	3310.6	1652.2	26.7	18.5	12.3	4.1	2.1	0.0	0.0	0.0	0.0
72.5°	2253.6	1065.2	20.5	12.3	6.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	1011.9	381.8	14.4	8.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	246.3	90.3	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.7	22.6	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.6	8.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.1	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)