

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: P674451

Luminaire Tested: **CCP-SA-1E-827-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674451
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-827-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

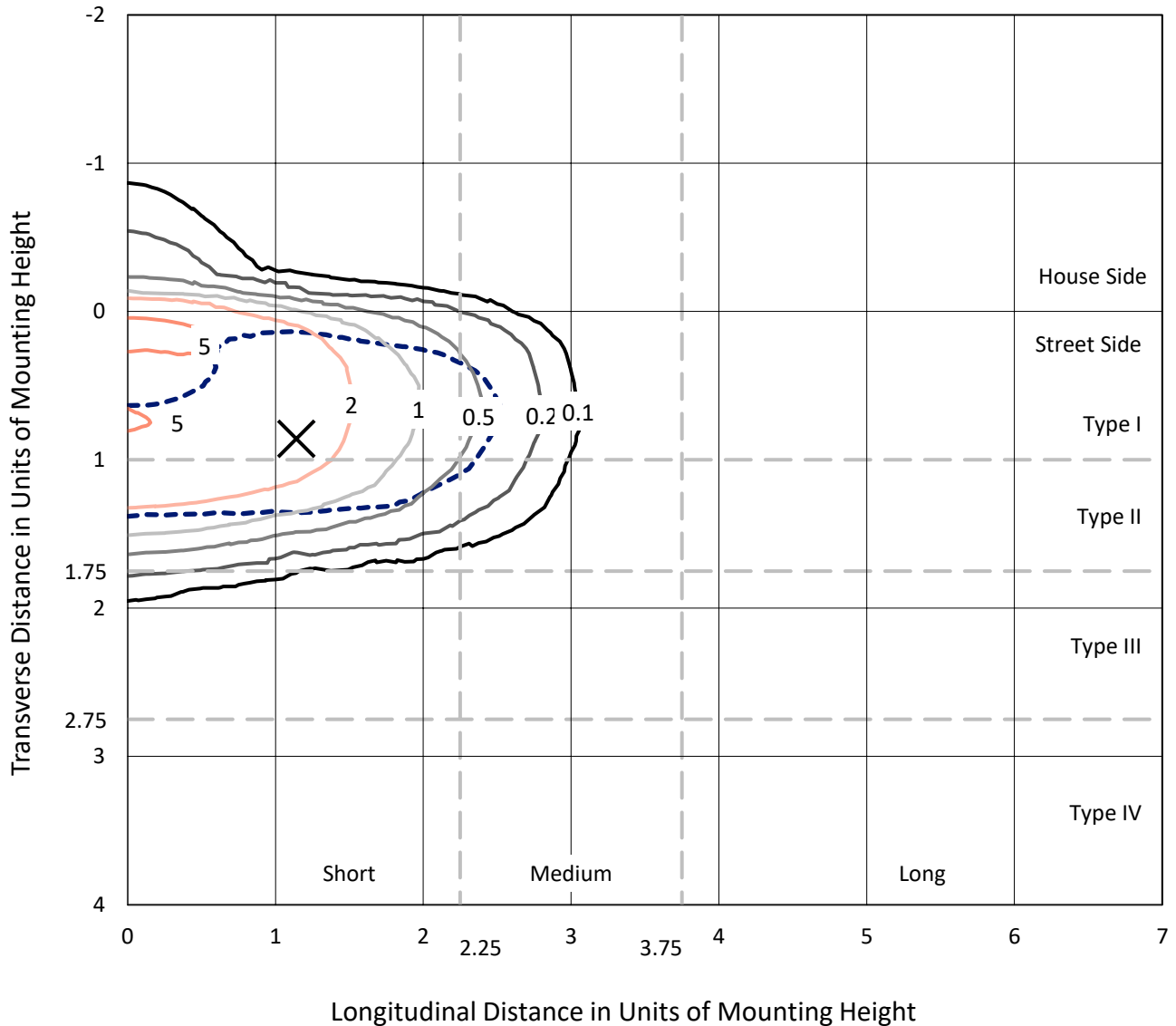
Lumens per Lamp: N/A
Luminaire Lumens: 4167.8 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 56.1
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

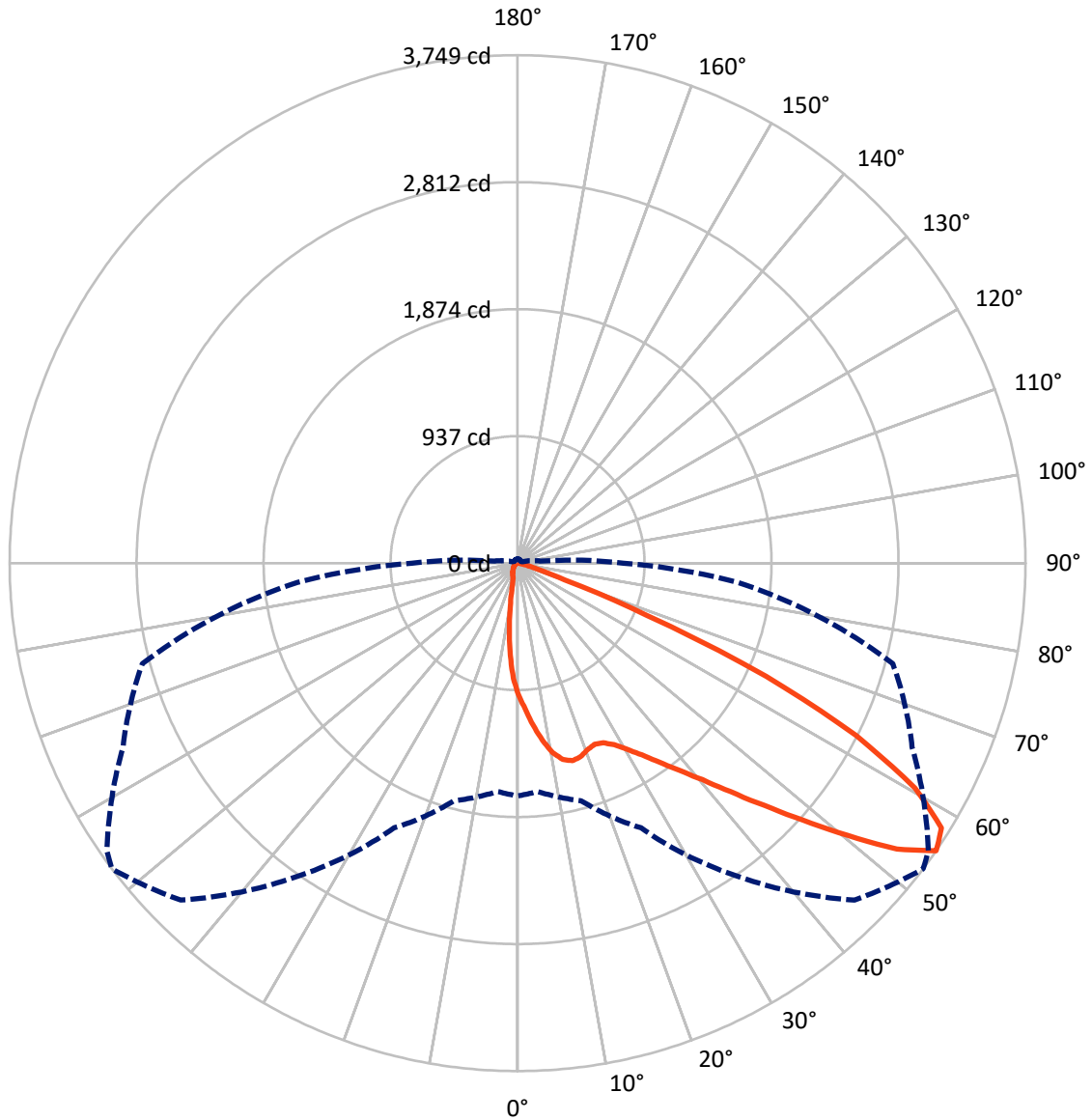
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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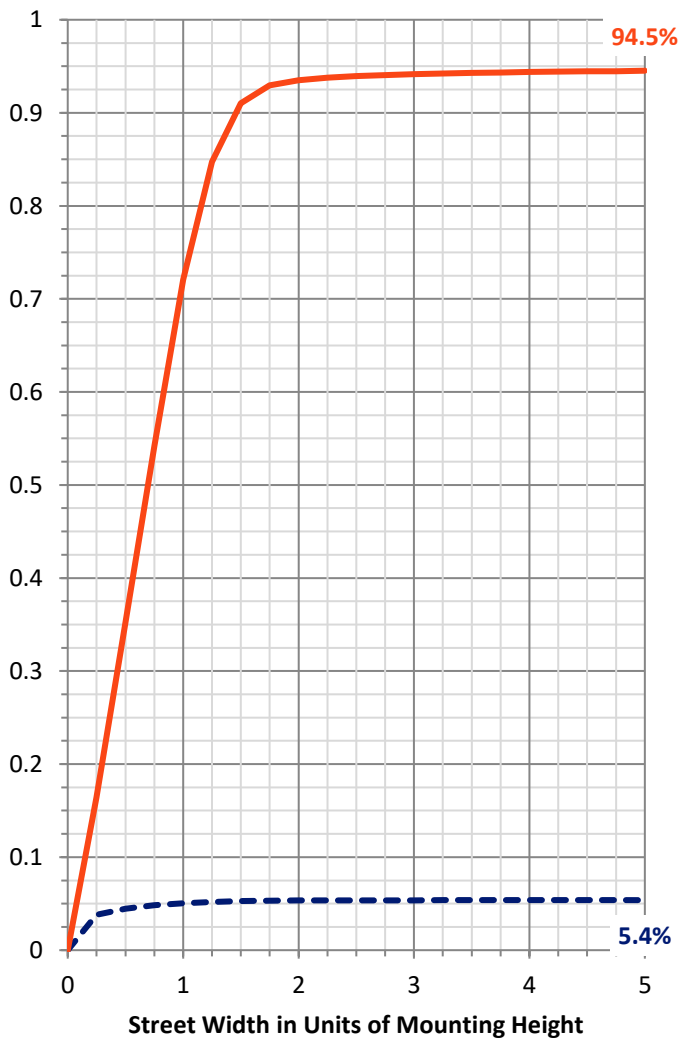
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	225.3	0.0	225.3
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	3942.5	0.0	3942.5
	% Fixture	94.6	0.0	94.6
Total	Lumens	4167.8	0.0	4167.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	2.1
10°-20°	227.9	5.5
20°-30°	381.4	9.2
30°-40°	623.9	15.0
40°-50°	1002.9	24.1
50°-60°	1132.3	27.2
60°-70°	604.0	14.5
70°-80°	99.3	2.4
80°-90°	8.9	0.2
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°	4167.8	100.0
0°-180°	4167.8	100.0



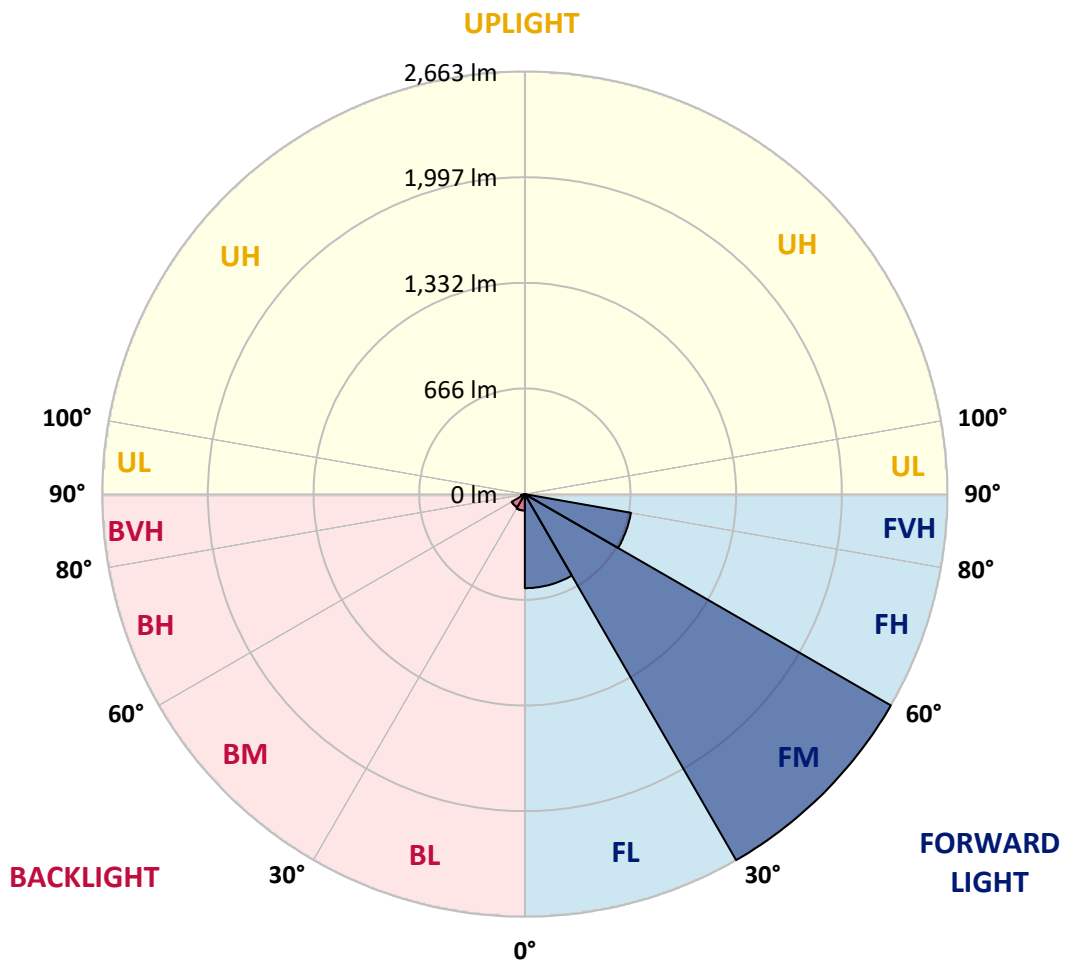
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.5	14.2			
FM (30°-60°)	2663.2	63.9			
FH (60°-80°)	678.6	16.3			G1/1800
FVH (80°-90°)	8.2	0.2			G0/10
BL (0°-30°)	104.0	2.5	B0/110		
BM (30°-60°)	96.0	2.3	B0/220		
BH (60°-80°)	24.6	0.6	B0/110		G0/110
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: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4
2.5°	1169.6	1162.7	1166.7	1156.1	1136.8	1112.7	1076.5	1078.3	1049.8	1025.0	990.7
5°	1362.8	1355.5	1353.3	1326.3	1299.3	1255.8	1202.1	1193.4	1141.1	1078.0	1006.0
7.5°	1464.7	1458.5	1463.2	1453.4	1426.7	1387.3	1319.3	1312.8	1232.1	1136.4	1030.5
10°	1417.9	1415.7	1435.8	1459.2	1480.7	1476.0	1421.6	1411.4	1320.8	1200.7	1055.7
12.5°	1292.3	1299.3	1324.8	1367.9	1434.4	1496.8	1488.0	1489.9	1411.4	1270.4	1083.4
15°	1218.6	1227.0	1241.6	1263.8	1345.6	1456.6	1513.2	1531.5	1498.3	1348.2	1116.3
17.5°	1212.3	1219.3	1221.5	1229.9	1277.7	1392.0	1503.0	1537.7	1575.7	1421.6	1153.2
20°	1260.2	1263.1	1261.3	1255.1	1272.2	1357.0	1470.9	1520.5	1639.6	1499.7	1185.7
22.5°	1350.4	1346.0	1340.5	1317.5	1316.4	1366.8	1453.4	1505.2	1677.6	1564.4	1207.2
25°	1462.1	1453.0	1445.3	1412.8	1397.5	1418.3	1469.1	1510.7	1711.9	1627.2	1222.6
27.5°	1584.1	1587.0	1568.0	1524.2	1500.1	1495.7	1517.6	1548.7	1745.1	1683.4	1231.0
30°	1714.4	1715.9	1691.1	1645.8	1623.9	1595.8	1594.3	1612.9	1780.9	1748.0	1239.0
32.5°	1863.1	1867.1	1826.6	1779.4	1741.1	1704.6	1686.7	1702.4	1845.2	1832.4	1255.4
35°	2077.8	2060.3	2005.5	1934.3	1879.9	1832.0	1804.6	1814.9	1930.6	1933.5	1288.3
37.5°	2299.1	2297.3	2236.6	2134.0	2044.9	1985.4	1938.7	1955.5	2050.8	2069.0	1340.9
40°	2505.4	2510.1	2457.6	2368.1	2253.4	2151.2	2101.2	2112.5	2210.3	2233.3	1404.8
42.5°	2640.1	2637.6	2641.6	2616.0	2501.0	2380.5	2305.3	2311.5	2395.8	2407.9	1484.8
45°	2702.2	2692.4	2726.7	2807.8	2762.1	2635.4	2549.6	2541.9	2588.3	2585.0	1557.4
47.5°	2648.5	2630.3	2709.2	2904.5	2992.9	2954.5	2831.9	2818.0	2778.5	2752.2	1633.0
50°	2381.6	2373.6	2542.3	2858.5	3137.9	3249.6	3159.4	3107.9	2948.3	2875.7	1672.8
52.5°	2127.8	2105.5	2219.5	2623.7	3073.2	3487.0	3505.6	3413.9	3089.3	2911.1	1659.3
55°	1718.8	1691.4	1815.6	2155.6	2817.2	3517.3	3748.8	3700.9	3212.7	2867.3	1631.9
57.5°	1044.0	1017.0	1199.6	1543.9	2253.1	3265.3	3688.9	3737.5	3307.7	2819.1	1614.0
60°	438.9	421.8	493.3	736.9	1438.7	2683.6	3371.2	3492.4	3325.6	2753.0	1621.3
62.5°	228.2	220.6	224.6	295.1	581.7	1767.0	2805.9	3017.0	3145.2	2723.8	1628.6
65°	171.3	165.4	152.6	162.1	226.0	763.9	2016.4	2299.1	2754.1	2649.6	1579.3
67.5°	140.6	135.1	126.0	123.1	133.3	265.1	1029.4	1396.8	2158.1	2333.8	1402.6
70°	112.1	110.3	107.4	101.9	100.1	128.5	369.2	569.3	1427.1	1645.8	1016.6
72.5°	93.5	93.8	90.6	85.8	79.2	82.9	147.2	194.6	690.5	789.1	425.8
75°	78.1	78.1	79.2	72.7	66.1	57.0	81.8	94.9	221.7	182.2	90.9
77.5°	61.3	62.1	66.8	61.3	52.9	35.8	44.6	50.8	65.7	52.6	33.2
80°	48.9	48.2	46.4	55.1	47.5	25.2	21.2	23.4	30.7	25.2	16.4
82.5°	34.3	34.0	32.5	37.2	36.9	18.6	13.9	14.2	18.6	16.1	10.2
85°	8.4	9.9	20.8	17.5	15.3	11.0	8.4	9.1	12.1	10.6	5.5
87.5°	3.7	3.7	9.5	11.3	7.3	4.7	3.7	4.0	6.2	6.2	3.3
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°	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4
2.5°	978.6	954.9	925.0	893.2	860.7	821.6	796.8	776.3	760.3	747.9	743.5
5°	982.3	936.6	868.7	784.4	698.6	618.2	556.1	510.1	472.2	451.3	442.2
7.5°	981.9	921.3	798.6	657.3	517.8	402.0	319.9	269.1	235.2	221.3	212.9
10°	981.6	901.2	718.6	516.3	346.2	233.0	171.6	143.1	130.7	126.0	125.3
12.5°	992.2	878.2	629.2	380.1	217.3	145.0	119.4	112.8	109.9	108.5	108.1
15°	998.0	857.0	535.0	268.4	146.4	114.7	106.6	103.7	102.6	101.9	101.5
17.5°	1004.2	824.2	445.5	194.3	117.2	104.1	99.3	97.5	96.8	96.8	96.8
20°	1005.3	788.8	356.8	143.1	104.1	97.1	92.4	90.6	89.5	88.7	88.7
22.5°	997.3	746.8	280.4	116.1	96.4	90.6	85.4	82.5	80.7	80.3	80.3
25°	977.2	687.2	215.1	101.9	90.2	84.0	77.8	74.5	73.0	73.0	73.0
27.5°	948.3	617.1	166.1	90.6	82.2	76.0	70.5	67.6	67.2	66.8	67.2
30°	915.5	549.6	127.1	80.3	72.7	67.6	63.2	61.7	62.4	62.4	62.8
32.5°	882.6	482.0	99.3	72.3	64.3	59.9	57.7	57.7	58.8	58.8	58.8
35°	854.5	415.9	83.3	65.7	58.4	54.8	53.7	54.8	55.5	55.9	55.9
37.5°	838.8	359.0	73.4	59.9	53.7	50.8	50.4	51.5	52.9	54.0	54.4
40°	832.9	315.1	67.6	55.5	49.3	47.5	47.1	48.6	51.1	52.9	53.3
42.5°	833.3	276.4	62.4	51.1	46.4	43.8	43.8	46.0	48.6	50.4	50.4
45°	835.9	243.2	57.3	46.7	43.8	39.4	39.8	42.7	44.6	46.4	46.4
47.5°	838.1	216.5	51.9	42.0	38.0	35.8	36.5	38.7	41.3	44.2	44.2
50°	825.3	197.6	46.4	36.9	33.2	32.5	34.0	35.8	39.4	42.4	42.7
52.5°	794.6	180.4	41.6	32.9	29.9	30.3	32.1	33.2	36.2	36.5	36.9
55°	781.1	171.6	38.0	29.9	27.4	28.5	29.6	29.9	29.2	27.4	27.4
57.5°	778.2	165.8	34.3	27.0	25.2	26.7	26.3	24.1	21.9	19.7	19.4
60°	781.1	157.8	31.4	23.4	23.0	23.4	22.3	18.3	15.3	13.9	13.1
62.5°	764.3	146.1	28.8	20.1	20.1	19.7	16.8	12.4	9.9	8.8	8.4
65°	708.8	123.1	26.3	16.8	16.4	15.7	11.3	8.4	6.6	5.5	5.1
67.5°	599.6	95.3	23.7	13.9	13.1	11.0	7.3	5.5	3.7	3.3	2.9
70°	409.0	59.2	20.1	11.0	9.9	6.9	4.4	3.3	2.2	1.8	1.5
72.5°	148.3	34.3	16.8	8.4	6.6	4.4	2.6	1.5	1.1	1.1	0.7
75°	35.1	24.1	12.8	6.2	4.4	2.6	1.5	1.1	0.7	0.7	0.4
77.5°	16.1	18.6	8.4	3.7	2.9	1.8	1.1	0.7	0.4	0.4	0.0
80°	9.1	13.1	4.0	2.6	2.2	1.5	0.7	0.4	0.4	0.0	0.0
82.5°	4.7	7.3	2.9	2.2	1.8	1.1	0.7	0.0	0.0	0.0	0.0
85°	3.3	3.7	2.2	1.8	1.5	1.1	0.7	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	2.2	1.8	1.5	1.1	0.4	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)