

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: P676777

Luminaire Tested: **CCW-SA-1F-840-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676777
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

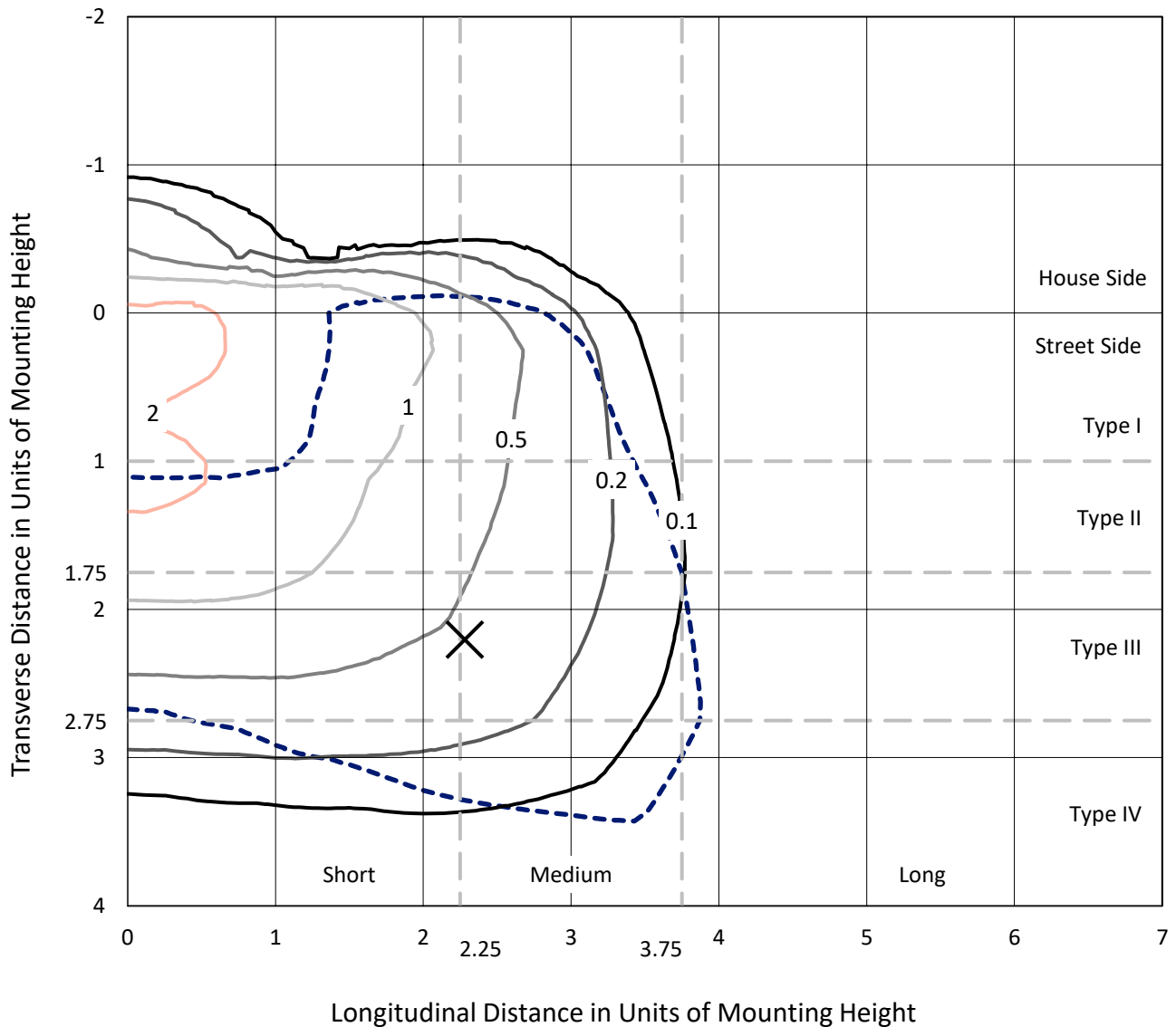
Lumens per Lamp: N/A
Luminaire Lumens: 4612.1 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

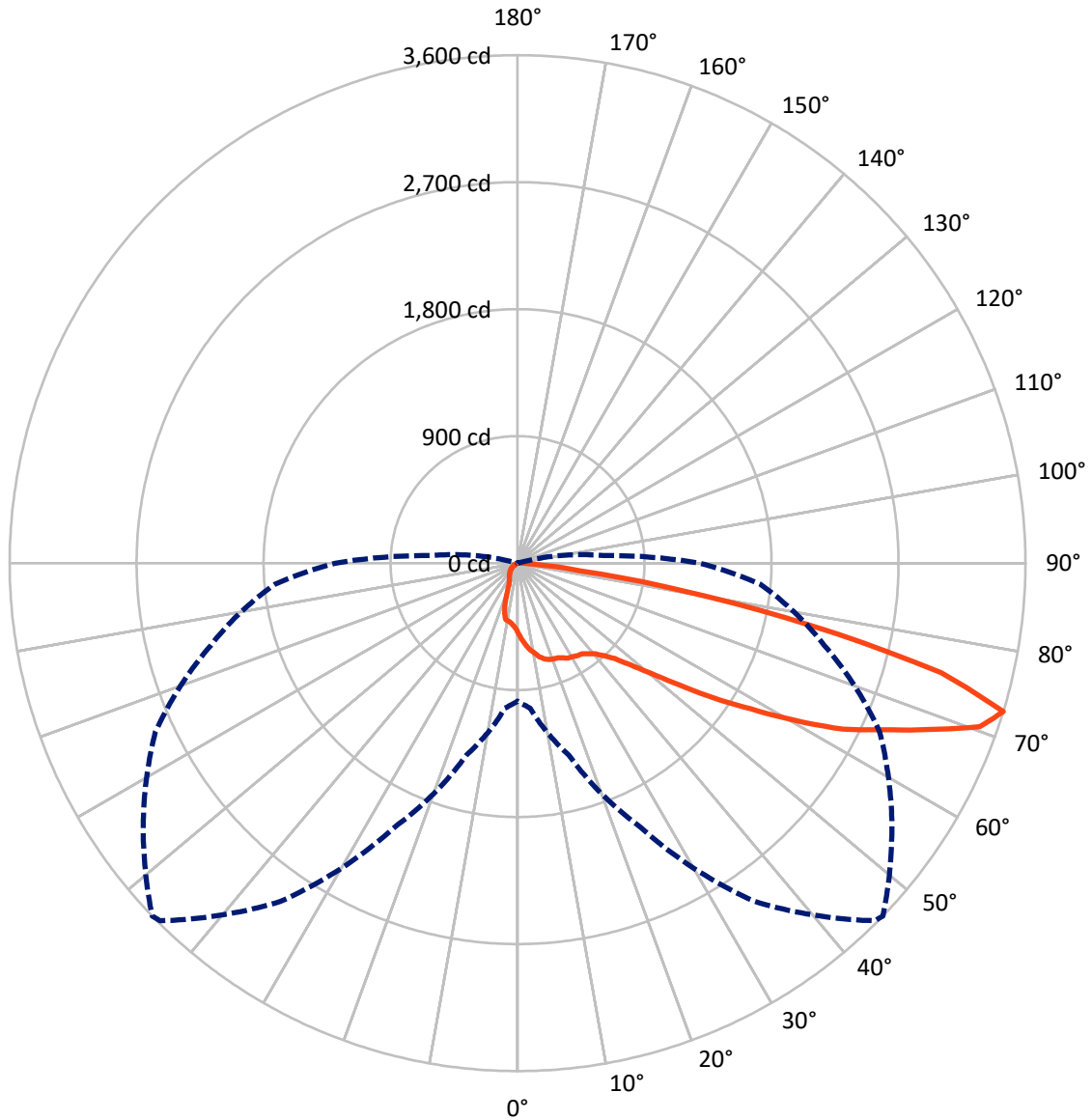
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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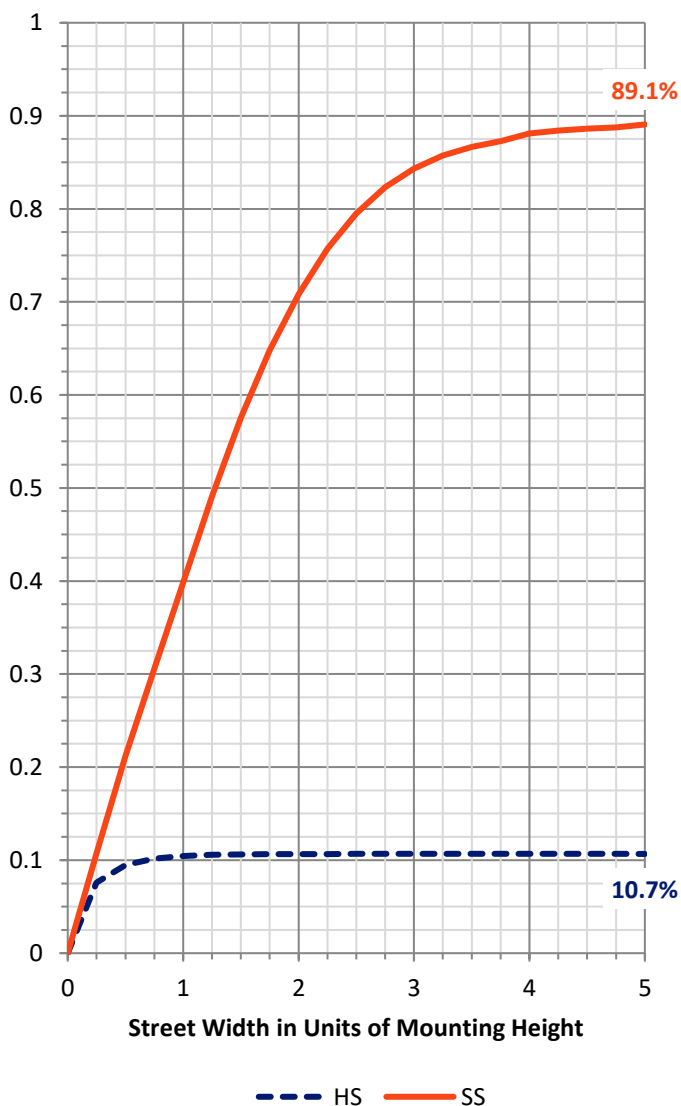
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	496.5	0.0	496.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4115.5	0.0	4115.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	4612.1	0.0	4612.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.1
10°-20°	148.9	3.2
20°-30°	233.2	5.1
30°-40°	326.5	7.1
40°-50°	538.5	11.7
50°-60°	967.9	21.0
60°-70°	1402.8	30.4
70°-80°	875.5	19.0
80°-90°	69.4	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°	4612.1	100.0
0°-180°	4612.1	100.0

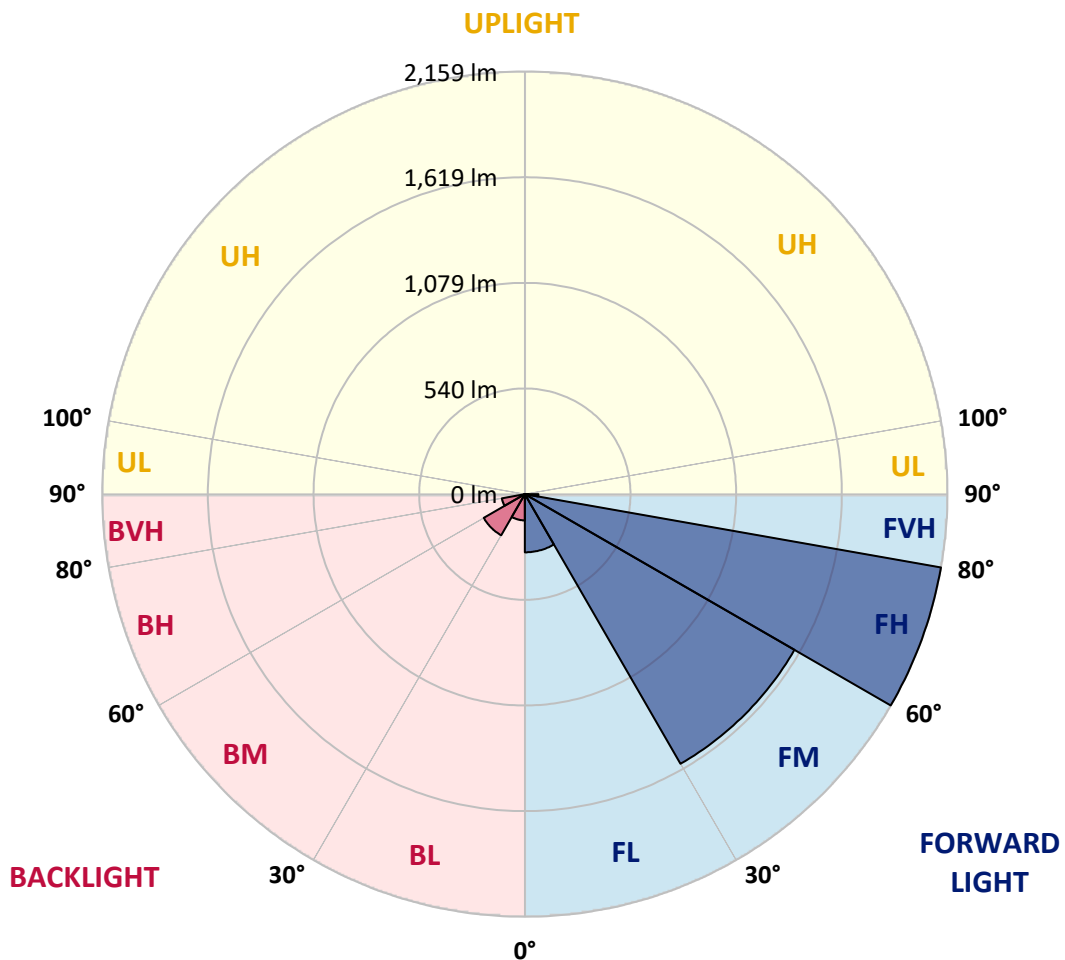


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.3	6.4			
FM (30°-60°)	1590.3	34.5			
FH (60°-80°)	2158.9	46.8			G2/5000
FVH (80°-90°)	69.0	1.5			G1/100
BL (0°-30°)	134.2	2.9	B1/500		
BM (30°-60°)	242.6	5.3	B1/1000		
BH (60°-80°)	119.4	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	551.7	549.4	552.9	551.7	537.6	540.0	538.8	529.4	512.9	503.5	497.6
5°	615.3	621.1	616.4	605.9	597.6	581.1	578.8	563.5	537.6	521.2	503.5
7.5°	681.1	681.1	671.7	655.3	637.6	620.0	617.6	591.7	569.4	541.2	516.4
10°	730.6	724.7	717.6	700.0	680.0	656.4	644.7	625.9	601.1	567.0	535.3
12.5°	774.1	764.7	752.9	727.0	703.5	677.6	680.0	649.4	632.9	602.3	555.3
15°	798.8	790.6	780.0	756.4	720.0	708.2	703.5	684.7	655.3	624.7	580.0
17.5°	804.7	798.8	784.7	754.1	734.1	720.0	718.8	696.4	683.5	657.6	608.2
20°	792.9	782.3	771.7	751.7	732.9	728.2	724.7	724.7	708.2	674.1	625.9
22.5°	772.9	761.1	755.3	743.5	728.2	727.0	729.4	727.0	714.1	691.7	644.7
25°	757.6	751.7	742.3	738.8	729.4	747.0	743.5	740.0	736.4	710.6	674.1
27.5°	762.3	761.1	754.1	740.0	732.9	751.7	762.3	763.5	762.3	736.4	701.1
30°	764.7	758.8	751.7	748.2	750.6	769.4	769.4	795.3	784.7	758.8	728.2
32.5°	791.7	788.2	764.7	756.4	757.6	780.0	781.1	807.0	803.5	785.8	751.7
35°	849.4	825.8	791.7	768.2	768.2	797.6	788.2	825.8	835.3	807.0	768.2
37.5°	935.3	917.6	856.4	803.5	783.5	804.7	814.1	835.3	863.5	838.8	801.1
40°	1105.8	1102.3	1015.2	901.1	822.3	841.1	844.7	877.6	896.4	862.3	851.7
42.5°	1355.2	1337.6	1256.4	1076.4	892.9	884.7	897.6	918.8	963.5	935.3	909.4
45°	1598.8	1590.5	1509.3	1308.2	1021.1	971.7	964.7	1002.3	1068.2	1037.6	1017.6
47.5°	1775.2	1758.7	1712.9	1543.5	1209.4	1074.1	1078.8	1116.4	1199.9	1176.4	1182.3
50°	1910.5	1902.3	1854.0	1761.1	1447.0	1235.2	1225.8	1263.5	1376.4	1391.7	1408.2
52.5°	2058.7	2074.0	2009.3	1930.5	1728.2	1451.7	1430.5	1443.5	1589.3	1624.6	1670.5
55°	2201.1	2225.8	2161.1	2150.5	2022.3	1691.7	1688.2	1657.6	1845.8	1850.5	1875.2
57.5°	2294.0	2285.8	2281.1	2338.7	2316.4	1967.0	1949.3	1918.7	2089.3	2058.7	2132.8
60°	2301.1	2324.6	2403.4	2545.8	2585.8	2290.5	2264.6	2181.1	2299.9	2227.0	2368.1
62.5°	2354.0	2372.8	2518.7	2715.2	2766.9	2575.2	2592.8	2381.1	2479.9	2422.2	2629.3
65°	2219.9	2278.7	2571.6	2846.9	3004.6	2863.4	2845.8	2638.7	2664.6	2610.5	2886.9
67.5°	2098.7	2121.1	2426.9	2886.9	3192.8	3152.8	3145.7	2866.9	2855.2	2755.2	2959.9
70°	1705.8	1732.9	2035.2	2682.2	3256.3	3490.4	3474.0	3186.9	2984.6	2676.3	2585.8
72.5°	977.6	1031.7	1410.5	2065.8	2925.7	3584.5	3599.8	3238.7	2831.6	2250.5	1727.0
75°	320.0	335.3	585.9	1170.5	2188.1	3126.9	3099.9	2783.4	2284.6	1485.8	780.0
77.5°	108.2	110.6	172.9	423.5	1212.9	2112.8	2128.1	1989.3	1403.5	617.6	215.3
80°	55.3	58.8	84.7	158.8	498.8	1150.5	1175.2	1134.1	588.2	182.3	51.8
82.5°	25.9	27.1	49.4	88.2	228.2	451.7	451.7	496.4	208.2	102.3	21.2
85°	9.4	9.4	25.9	50.6	96.5	150.6	151.8	152.9	109.4	76.5	9.4
87.5°	3.5	3.5	12.9	21.2	35.3	45.9	45.9	36.5	55.3	50.6	3.5
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°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	495.3	488.2	482.3	474.1	463.5	457.6	458.8	451.7	451.7	448.2	447.0
5°	495.3	488.2	472.9	458.8	449.4	437.6	431.7	427.0	427.0	424.7	425.9
7.5°	498.8	488.2	467.0	448.2	432.9	421.2	411.7	410.6	408.2	402.3	407.0
10°	520.0	504.7	469.4	443.5	425.9	412.9	396.5	391.7	384.7	374.1	375.3
12.5°	537.6	517.6	485.9	450.6	428.2	407.0	369.4	328.2	310.6	291.8	292.9
15°	563.5	535.3	491.7	460.0	428.2	360.0	291.8	238.8	210.6	196.5	196.5
17.5°	577.6	554.1	508.2	465.9	394.1	292.9	207.0	161.2	156.5	158.8	158.8
20°	607.0	575.3	527.0	470.6	337.6	208.2	151.8	147.1	149.4	154.1	152.9
22.5°	625.9	594.1	541.2	449.4	261.2	149.4	142.3	140.0	142.3	148.2	148.2
25°	641.1	621.1	563.5	397.6	184.7	135.3	132.9	135.3	137.6	140.0	143.5
27.5°	678.8	644.7	578.8	330.6	132.9	125.9	128.2	129.4	129.4	132.9	134.1
30°	703.5	676.4	590.6	255.3	117.6	116.5	118.8	120.0	121.2	124.7	125.9
32.5°	727.0	717.6	575.3	172.9	110.6	108.2	107.1	108.2	112.9	116.5	115.3
35°	761.1	755.3	552.9	120.0	103.5	98.8	96.5	97.6	101.2	104.7	103.5
37.5°	802.3	808.2	498.8	104.7	96.5	90.6	85.9	85.9	87.1	90.6	91.8
40°	850.5	865.8	435.3	97.6	91.8	84.7	80.0	74.1	72.9	71.8	72.9
42.5°	938.8	956.4	363.5	92.9	84.7	76.5	69.4	62.4	56.5	52.9	52.9
45°	1062.3	1048.2	269.4	88.2	81.2	69.4	58.8	50.6	42.4	38.8	38.8
47.5°	1232.9	1184.7	184.7	83.5	75.3	61.2	49.4	38.8	31.8	28.2	28.2
50°	1469.3	1310.5	120.0	78.8	71.8	52.9	40.0	28.2	23.5	22.4	23.5
52.5°	1692.9	1438.8	95.3	72.9	64.7	45.9	30.6	23.5	21.2	20.0	20.0
55°	1898.7	1503.5	84.7	67.1	58.8	37.6	25.9	20.0	18.8	17.6	17.6
57.5°	2072.8	1525.8	72.9	58.8	47.1	29.4	21.2	17.6	15.3	14.1	14.1
60°	2223.4	1531.7	56.5	47.1	34.1	22.4	17.6	15.3	12.9	10.6	10.6
62.5°	2343.4	1490.5	40.0	32.9	23.5	17.6	15.3	10.6	7.1	4.7	3.5
65°	2438.7	1408.2	27.1	22.4	15.3	12.9	9.4	4.7	1.2	0.0	0.0
67.5°	2327.0	1221.1	21.2	16.5	10.6	8.2	4.7	1.2	0.0	0.0	0.0
70°	1897.6	947.0	15.3	10.6	7.1	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	1291.7	610.6	11.8	7.1	3.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	580.0	218.8	8.2	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	141.2	51.8	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.6	12.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.1	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	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)