

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: P676735

Luminaire Tested: **CCW-SA-2B-760-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676735
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-760-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

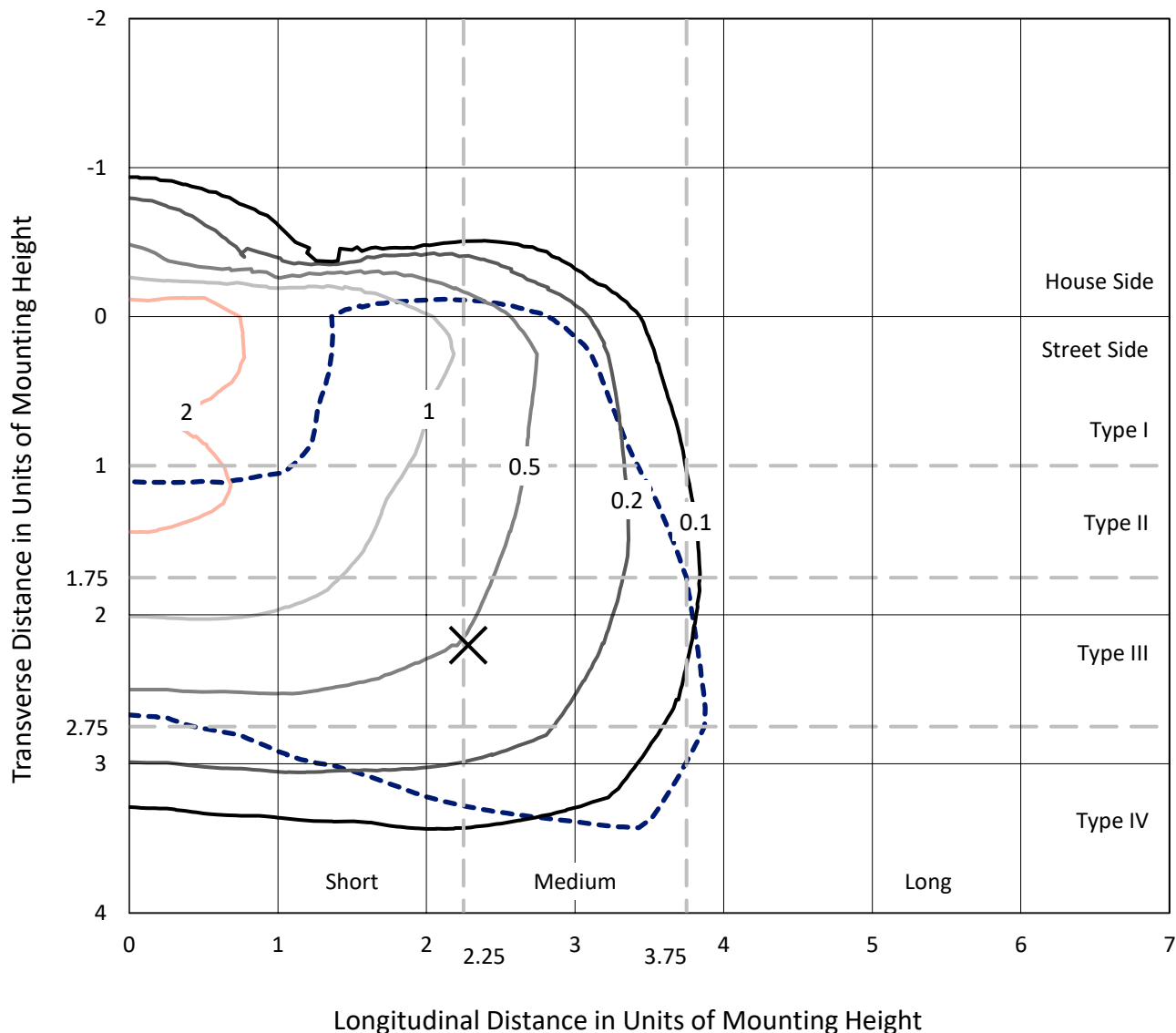
Lumens per Lamp: N/A
Luminaire Lumens: 5096.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

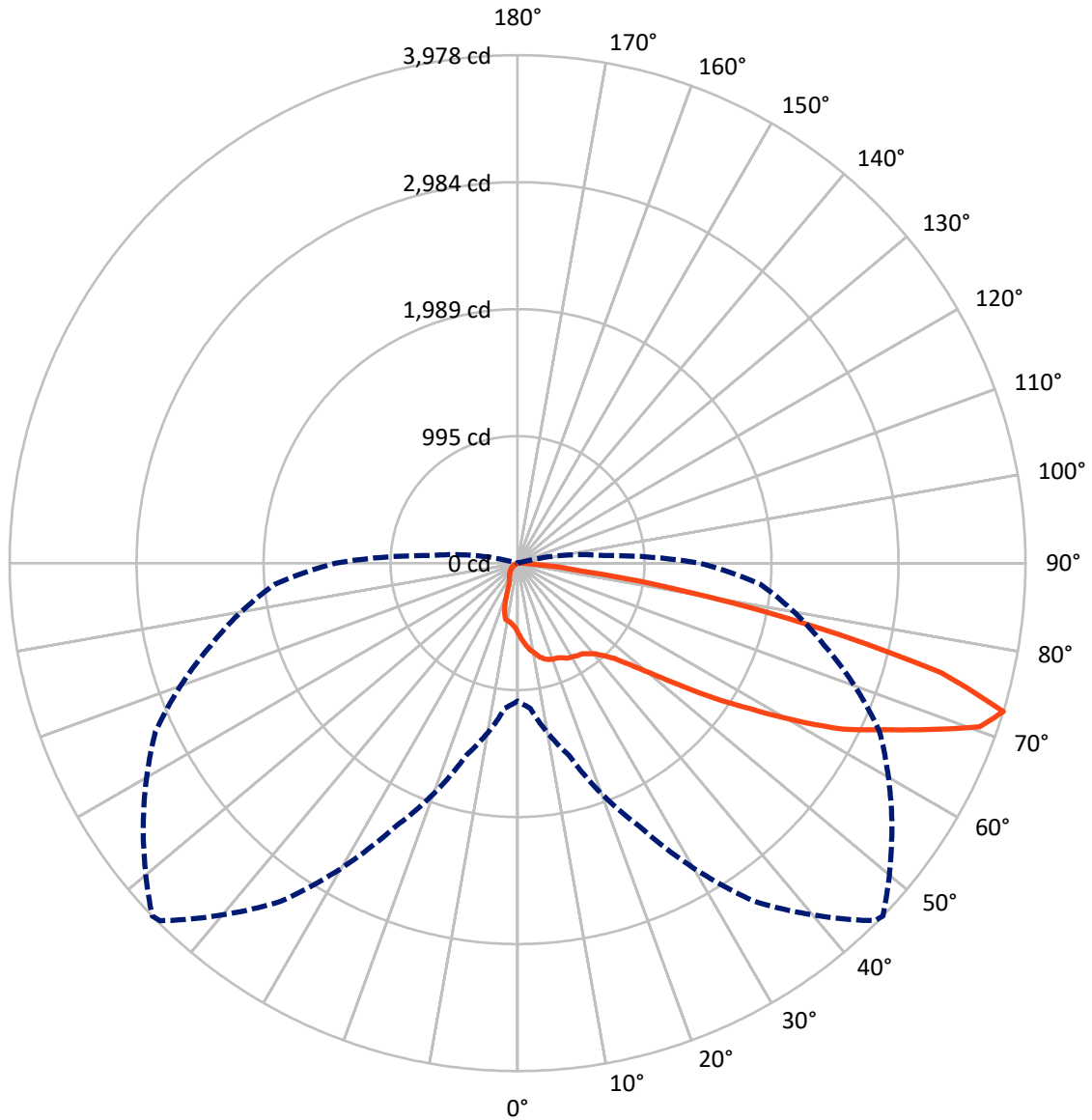
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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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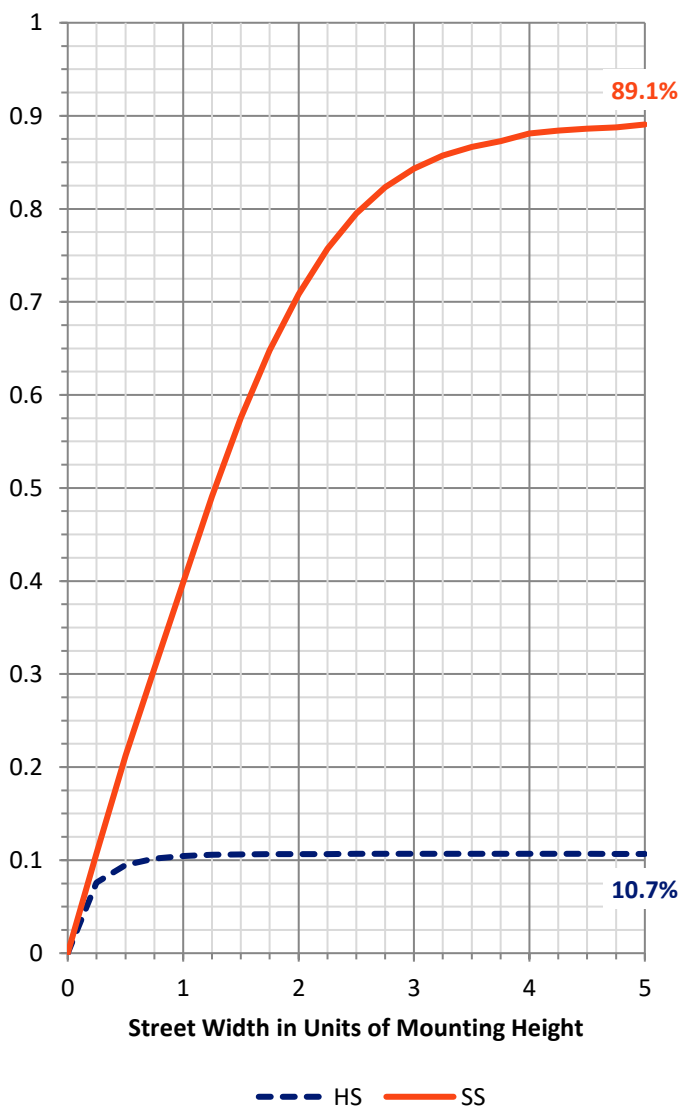
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.7	0.0	548.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4548.0	0.0	4548.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	5096.7	0.0	5096.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.1
10°-20°	164.6	3.2
20°-30°	257.7	5.1
30°-40°	360.9	7.1
40°-50°	595.1	11.7
50°-60°	1069.6	21.0
60°-70°	1550.2	30.4
70°-80°	967.5	19.0
80°-90°	76.7	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°	5096.7	100.0
0°-180°	5096.7	100.0

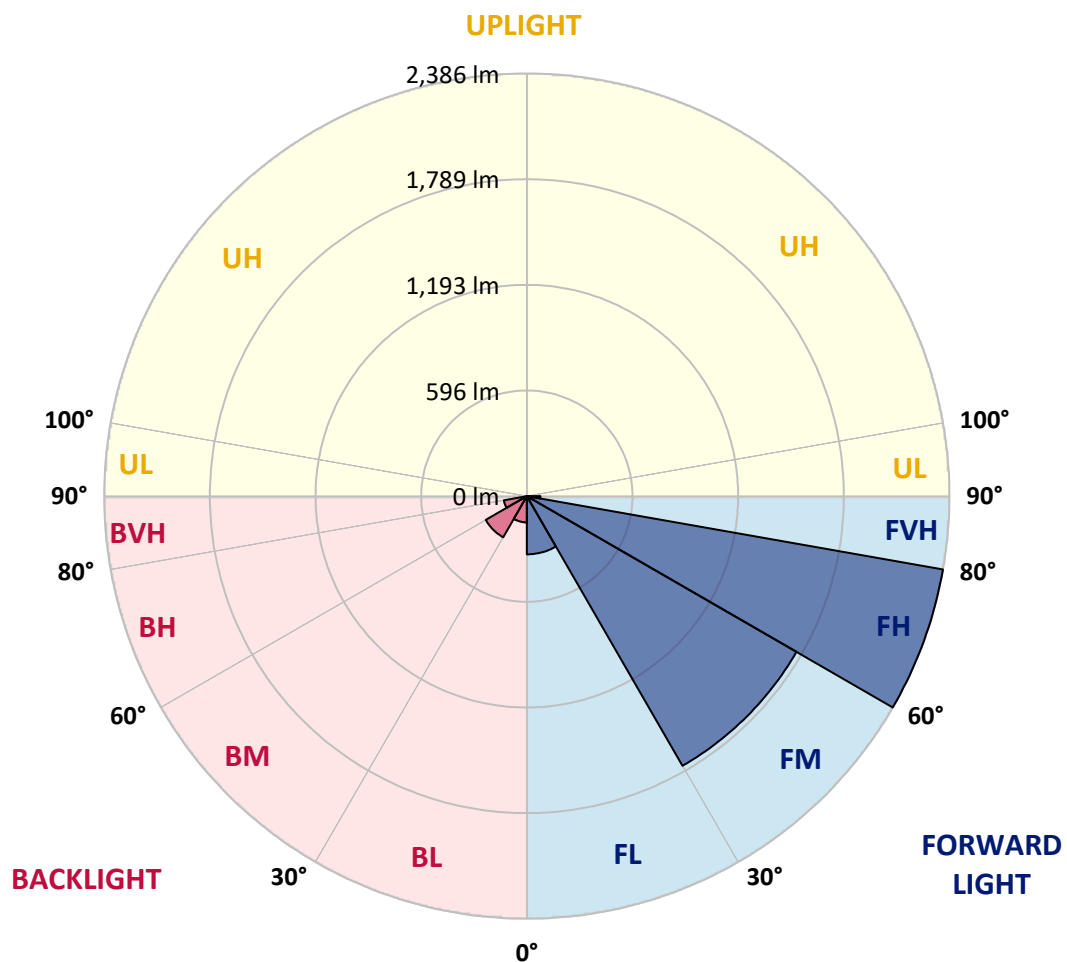


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.5	6.4			
FM (30°-60°)	1757.5	34.5			
FH (60°-80°)	2385.8	46.8			G2/5000
FVH (80°-90°)	76.3	1.5			G1/100
BL (0°-30°)	148.3	2.9	B1/500		
BM (30°-60°)	268.1	5.3	B1/1000		
BH (60°-80°)	132.0	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°	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7
2.5°	609.7	607.1	611.0	609.7	594.1	596.7	595.4	585.0	566.8	556.4	549.9
5°	679.9	686.4	681.2	669.5	660.4	642.2	639.6	622.7	594.1	575.9	556.4
7.5°	752.7	752.7	742.3	724.1	704.6	685.1	682.5	653.9	629.2	598.0	570.7
10°	807.3	800.8	793.0	773.5	751.4	725.4	712.4	691.6	664.3	626.6	591.5
12.5°	855.4	845.0	832.0	803.4	777.4	748.8	751.4	717.6	699.4	665.6	613.6
15°	882.7	873.6	861.9	835.9	795.6	782.6	777.4	756.6	724.1	690.3	640.9
17.5°	889.2	882.7	867.1	833.3	811.2	795.6	794.3	769.6	755.3	726.7	672.1
20°	876.2	864.5	852.8	830.7	809.9	804.7	800.8	800.8	782.6	744.9	691.6
22.5°	854.1	841.1	834.6	821.6	804.7	803.4	806.0	803.4	789.1	764.4	712.4
25°	837.2	830.7	820.3	816.4	806.0	825.5	821.6	817.7	813.8	785.2	744.9
27.5°	842.4	841.1	833.3	817.7	809.9	830.7	842.4	843.7	842.4	813.8	774.8
30°	845.0	838.5	830.7	826.8	829.4	850.2	850.2	878.8	867.1	838.5	804.7
32.5°	874.9	871.0	845.0	835.9	837.2	861.9	863.2	891.8	887.9	868.4	830.7
35°	938.6	912.6	874.9	848.9	848.9	881.4	871.0	912.6	923.0	891.8	848.9
37.5°	1033.5	1014.0	946.4	887.9	865.8	889.2	899.6	923.0	954.2	926.9	885.3
40°	1222.1	1218.2	1121.9	995.8	908.7	929.5	933.4	969.8	990.6	952.9	941.2
42.5°	1497.7	1478.2	1388.5	1189.6	986.7	977.6	991.9	1015.3	1064.7	1033.5	1004.9
45°	1766.8	1757.7	1668.0	1445.7	1128.4	1073.8	1066.0	1107.6	1180.4	1146.6	1124.5
47.5°	1961.8	1943.6	1892.9	1705.7	1336.5	1187.0	1192.2	1233.8	1326.1	1300.1	1306.6
50°	2111.3	2102.2	2048.9	1946.2	1599.1	1365.1	1354.7	1396.3	1521.1	1538.0	1556.2
52.5°	2275.1	2292.0	2220.5	2133.4	1909.8	1604.3	1580.9	1595.2	1756.4	1795.4	1846.1
55°	2432.4	2459.7	2388.2	2376.5	2234.8	1869.5	1865.6	1831.8	2039.8	2045.0	2072.3
57.5°	2535.1	2526.0	2520.8	2584.5	2559.8	2173.7	2154.2	2120.4	2308.9	2275.1	2357.0
60°	2542.9	2568.9	2656.0	2813.3	2857.5	2531.2	2502.6	2410.3	2541.6	2461.0	2617.0
62.5°	2601.4	2622.2	2783.4	3000.5	3057.7	2845.8	2865.3	2631.3	2740.5	2676.8	2905.6
65°	2453.2	2518.2	2841.9	3146.1	3320.3	3164.3	3144.8	2916.0	2944.6	2884.8	3190.3
67.5°	2319.3	2344.0	2682.0	3190.3	3528.3	3484.1	3476.3	3168.2	3155.2	3044.7	3270.9
70°	1885.1	1915.0	2249.1	2964.1	3598.6	3857.3	3839.1	3521.8	3298.2	2957.6	2857.5
72.5°	1080.3	1140.1	1558.8	2282.9	3233.2	3961.3	3978.2	3579.1	3129.2	2487.0	1908.5
75°	353.6	370.5	647.4	1293.6	2418.1	3455.5	3425.6	3075.9	2524.7	1642.0	861.9
77.5°	119.6	122.2	191.1	468.0	1340.4	2334.9	2351.8	2198.4	1551.0	682.5	237.9
80°	61.1	65.0	93.6	175.5	551.2	1271.5	1298.8	1253.3	650.0	201.5	57.2
82.5°	28.6	29.9	54.6	97.5	252.2	499.2	499.2	548.6	230.1	113.1	23.4
85°	10.4	10.4	28.6	55.9	106.6	166.4	167.7	169.0	120.9	84.5	10.4
87.5°	3.9	3.9	14.3	23.4	39.0	50.7	50.7	40.3	61.1	55.9	3.9
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°	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7
2.5°	547.3	539.5	533.0	523.9	512.2	505.7	507.0	499.2	499.2	495.3	494.0
5°	547.3	539.5	522.6	507.0	496.6	483.6	477.1	471.9	471.9	469.3	470.6
7.5°	551.2	539.5	516.1	495.3	478.4	465.4	455.0	453.7	451.1	444.6	449.8
10°	574.6	557.7	518.7	490.1	470.6	456.3	438.1	432.9	425.1	413.4	414.7
12.5°	594.1	572.0	536.9	497.9	473.2	449.8	408.2	362.7	343.2	322.4	323.7
15°	622.7	591.5	543.4	508.3	473.2	397.8	322.4	263.9	232.7	217.1	217.1
17.5°	638.3	612.3	561.6	514.8	435.5	323.7	228.8	178.1	172.9	175.5	175.5
20°	670.8	635.7	582.4	520.0	373.1	230.1	167.7	162.5	165.1	170.3	169.0
22.5°	691.6	656.5	598.0	496.6	288.6	165.1	157.3	154.7	157.3	163.8	163.8
25°	708.5	686.4	622.7	439.4	204.1	149.5	146.9	149.5	152.1	154.7	158.6
27.5°	750.1	712.4	639.6	365.3	146.9	139.1	141.7	143.0	143.0	146.9	148.2
30°	777.4	747.5	652.6	282.1	130.0	128.7	131.3	132.6	133.9	137.8	139.1
32.5°	803.4	793.0	635.7	191.1	122.2	119.6	118.3	119.6	124.8	128.7	127.4
35°	841.1	834.6	611.0	132.6	114.4	109.2	106.6	107.9	111.8	115.7	114.4
37.5°	886.6	893.1	551.2	115.7	106.6	100.1	94.9	94.9	96.2	100.1	101.4
40°	939.9	956.8	481.0	107.9	101.4	93.6	88.4	81.9	80.6	79.3	80.6
42.5°	1037.4	1056.9	401.7	102.7	93.6	84.5	76.7	68.9	62.4	58.5	58.5
45°	1173.9	1158.3	297.7	97.5	89.7	76.7	65.0	55.9	46.8	42.9	42.9
47.5°	1362.5	1309.2	204.1	92.3	83.2	67.6	54.6	42.9	35.1	31.2	31.2
50°	1623.8	1448.3	132.6	87.1	79.3	58.5	44.2	31.2	26.0	24.7	26.0
52.5°	1870.8	1590.0	105.3	80.6	71.5	50.7	33.8	26.0	23.4	22.1	22.1
55°	2098.3	1661.5	93.6	74.1	65.0	41.6	28.6	22.1	20.8	19.5	19.5
57.5°	2290.7	1686.2	80.6	65.0	52.0	32.5	23.4	19.5	16.9	15.6	15.6
60°	2457.1	1692.7	62.4	52.0	37.7	24.7	19.5	16.9	14.3	11.7	11.7
62.5°	2589.7	1647.2	44.2	36.4	26.0	19.5	16.9	11.7	7.8	5.2	3.9
65°	2695.0	1556.2	29.9	24.7	16.9	14.3	10.4	5.2	1.3	0.0	0.0
67.5°	2571.5	1349.5	23.4	18.2	11.7	9.1	5.2	1.3	0.0	0.0	0.0
70°	2097.0	1046.5	16.9	11.7	7.8	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	1427.5	674.7	13.0	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0
75°	640.9	241.8	9.1	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	156.0	57.2	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.6	14.3	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.6	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	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)