

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: P676770

Luminaire Tested: **CCW-SA-2D-835-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676770
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

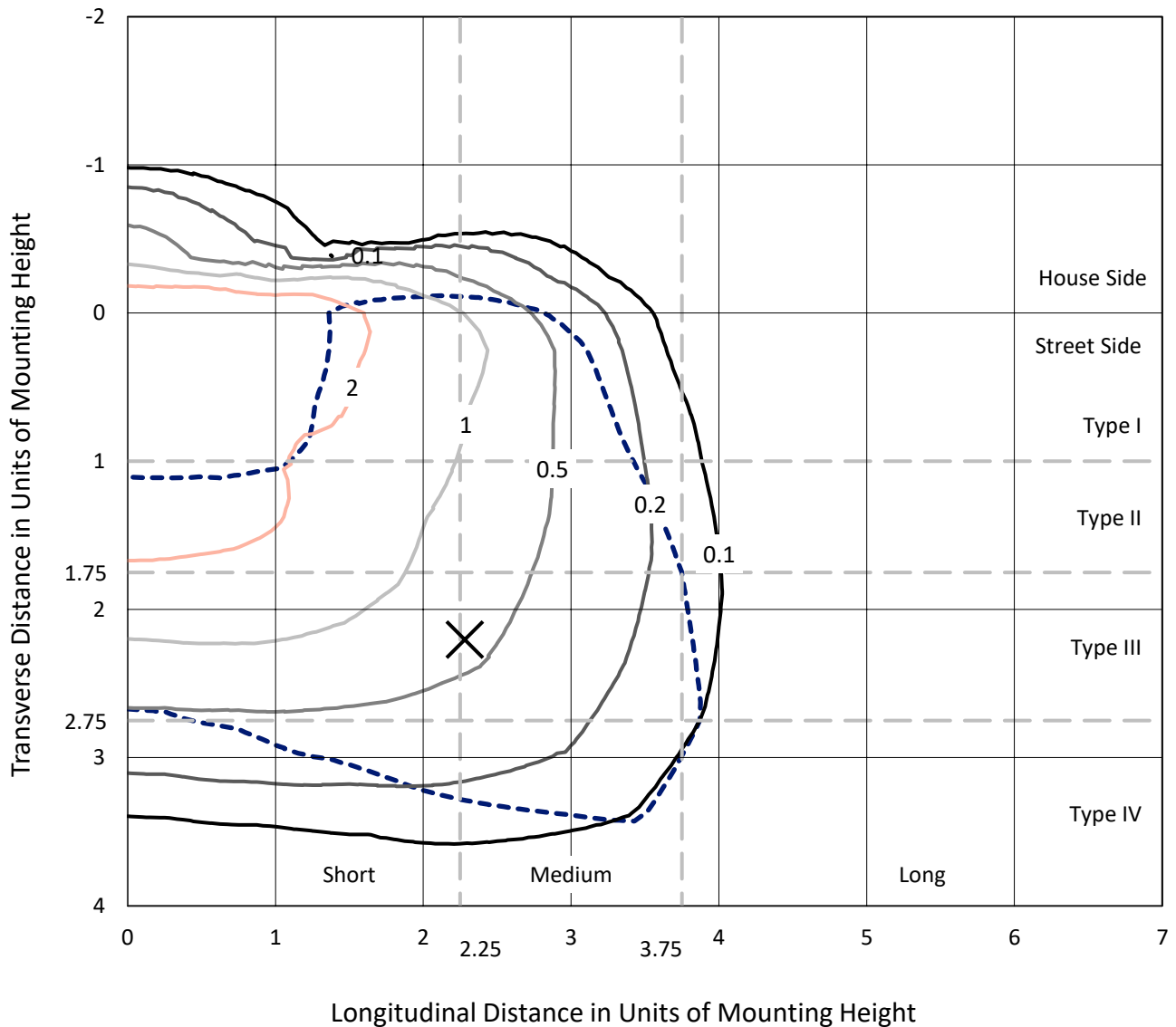
Lumens per Lamp: N/A
Luminaire Lumens: 6630.3 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

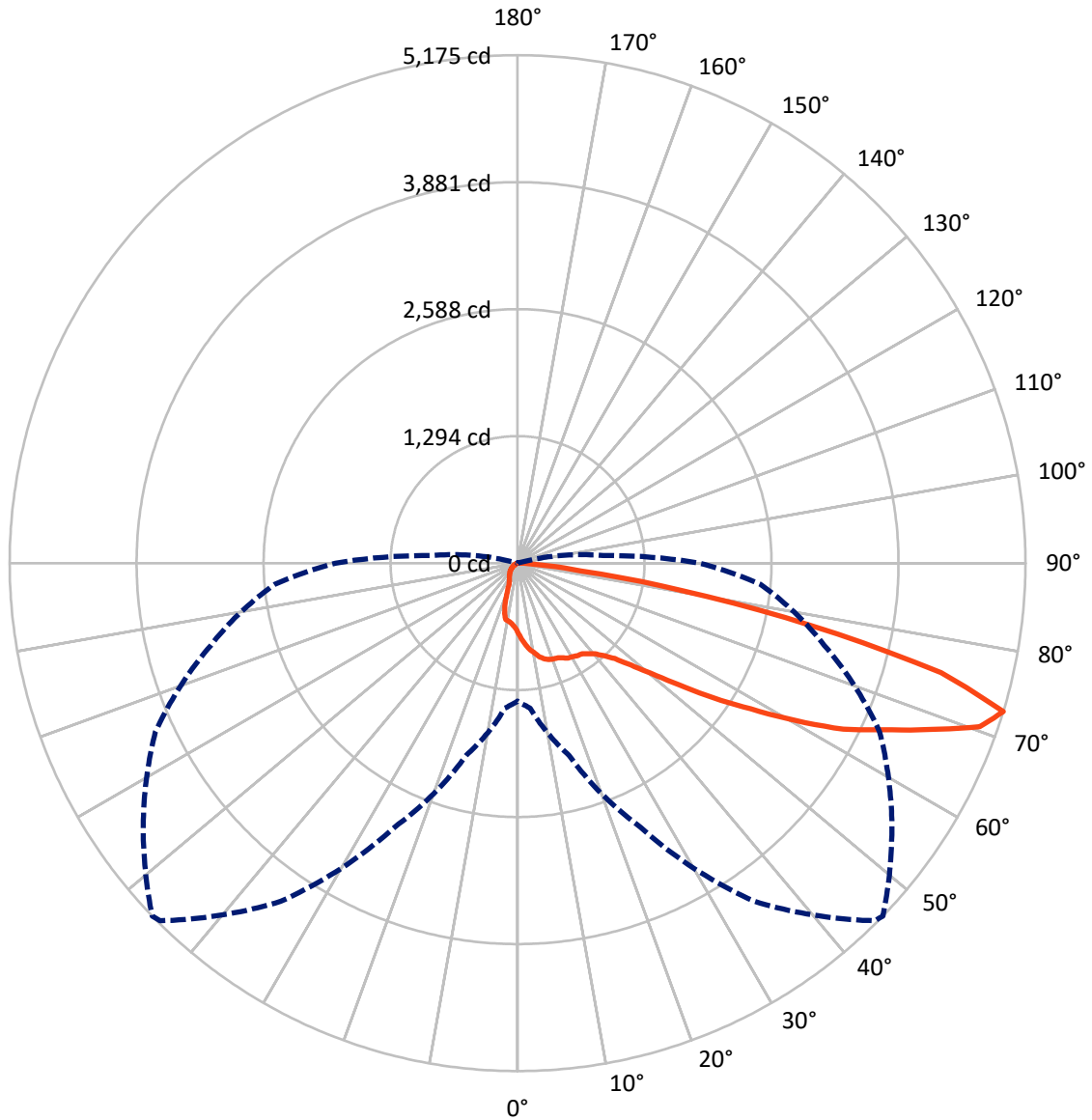
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 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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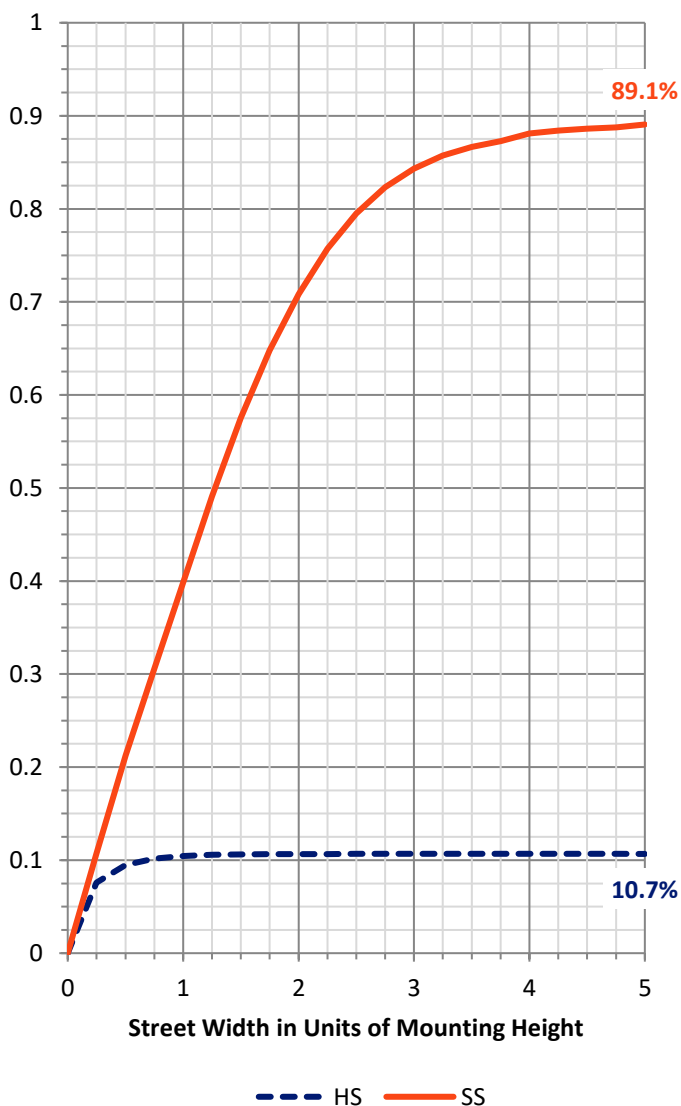
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.8	0.0	713.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	5916.5	0.0	5916.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	6630.3	0.0	6630.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.1
10°-20°	214.1	3.2
20°-30°	335.2	5.1
30°-40°	469.5	7.1
40°-50°	774.1	11.7
50°-60°	1391.4	21.0
60°-70°	2016.7	30.4
70°-80°	1258.6	19.0
80°-90°	99.8	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°	6630.3	100.0
0°-180°	6630.3	100.0

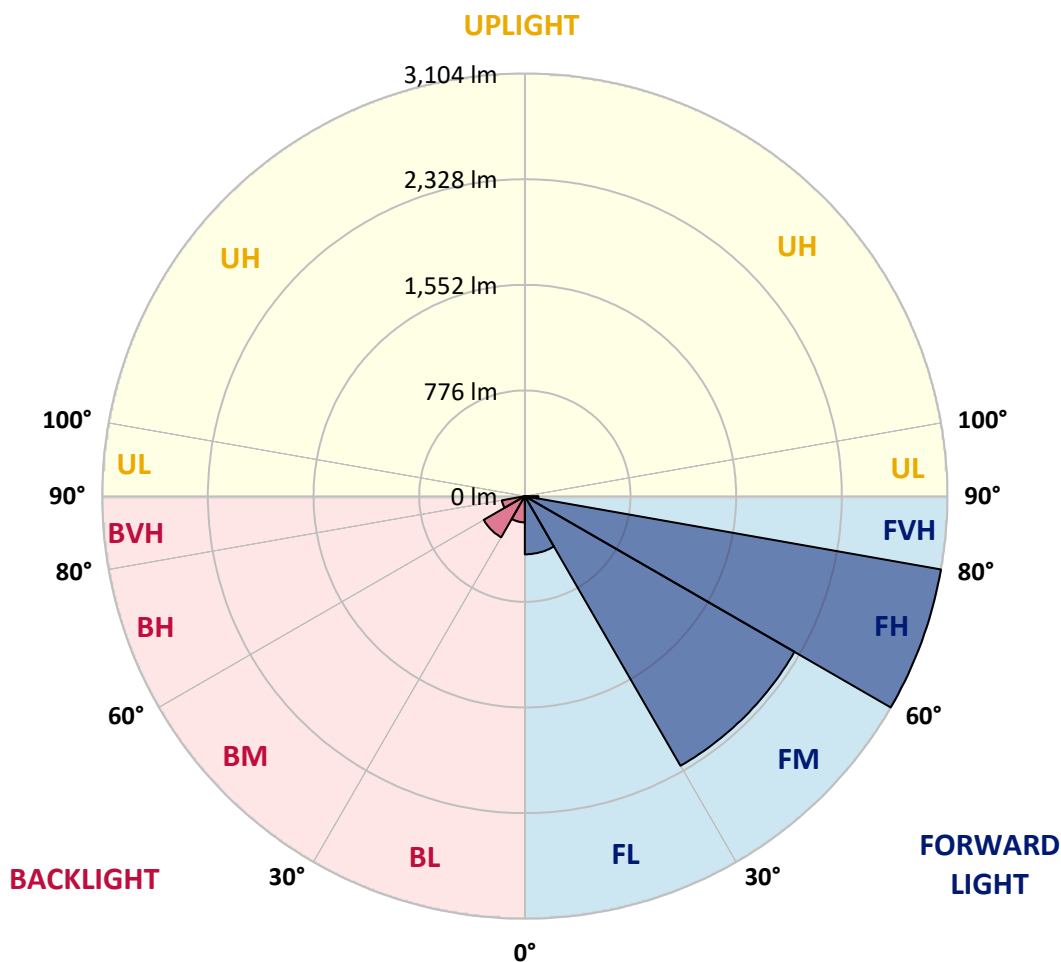


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.4	6.4			
FM (30°-60°)	2286.3	34.5			
FH (60°-80°)	3103.6	46.8			G2/5000
FVH (80°-90°)	99.2	1.5			G1/100
BL (0°-30°)	192.9	2.9	B1/500		
BM (30°-60°)	348.7	5.3	B1/1000		
BH (60°-80°)	171.7	2.6	B1/500		G1/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6
2.5°	793.2	789.8	794.9	793.2	772.9	776.3	774.6	761.0	737.4	723.8	715.4
5°	884.5	893.0	886.2	871.0	859.1	835.5	832.1	810.1	772.9	749.2	723.8
7.5°	979.2	979.2	965.7	942.0	916.6	891.3	887.9	850.7	818.5	778.0	742.4
10°	1050.2	1041.8	1031.6	1006.3	977.5	943.7	926.8	899.7	864.2	815.2	769.5
12.5°	1112.8	1099.3	1082.4	1045.2	1011.3	974.1	977.5	933.6	909.9	865.9	798.3
15°	1148.3	1136.5	1121.3	1087.5	1035.0	1018.1	1011.3	984.3	942.0	898.0	833.8
17.5°	1156.8	1148.3	1128.0	1084.1	1055.3	1035.0	1033.3	1001.2	982.6	945.4	874.4
20°	1139.9	1124.7	1109.4	1080.7	1053.6	1046.9	1041.8	1041.8	1018.1	969.1	899.7
22.5°	1111.1	1094.2	1085.8	1068.8	1046.9	1045.2	1048.6	1045.2	1026.6	994.4	926.8
25°	1089.1	1080.7	1067.2	1062.1	1048.6	1073.9	1068.8	1063.8	1058.7	1021.5	969.1
27.5°	1095.9	1094.2	1084.1	1063.8	1053.6	1080.7	1095.9	1097.6	1095.9	1058.7	1008.0
30°	1099.3	1090.8	1080.7	1075.6	1079.0	1106.1	1106.1	1143.3	1128.0	1090.8	1046.9
32.5°	1138.2	1133.1	1099.3	1087.5	1089.1	1121.3	1123.0	1160.2	1155.1	1129.7	1080.7
35°	1221.1	1187.2	1138.2	1104.4	1104.4	1146.6	1133.1	1187.2	1200.8	1160.2	1104.4
37.5°	1344.5	1319.2	1231.2	1155.1	1126.4	1156.8	1170.3	1200.8	1241.4	1205.8	1151.7
40°	1589.7	1584.7	1459.5	1295.5	1182.2	1209.2	1214.3	1261.6	1288.7	1239.7	1224.4
42.5°	1948.3	1922.9	1806.2	1547.5	1283.6	1271.8	1290.4	1320.8	1385.1	1344.5	1307.3
45°	2298.4	2286.5	2169.8	1880.6	1468.0	1396.9	1386.8	1440.9	1535.6	1491.7	1462.9
47.5°	2552.0	2528.4	2462.4	2218.9	1738.6	1544.1	1550.8	1605.0	1725.0	1691.2	1699.7
50°	2746.5	2734.7	2665.4	2531.8	2080.2	1775.8	1762.2	1816.4	1978.7	2000.7	2024.4
52.5°	2959.6	2981.6	2888.6	2775.3	2484.4	2087.0	2056.5	2075.1	2284.8	2335.6	2401.5
55°	3164.3	3199.8	3106.8	3091.5	2907.2	2432.0	2426.9	2382.9	2653.5	2660.3	2695.8
57.5°	3297.9	3286.0	3279.3	3362.1	3330.0	2827.7	2802.3	2758.4	3003.6	2959.6	3066.2
60°	3308.0	3341.8	3455.2	3659.8	3717.3	3292.8	3255.6	3135.5	3306.3	3201.5	3404.4
62.5°	3384.1	3411.2	3620.9	3903.3	3977.7	3702.1	3727.4	3423.0	3565.1	3482.2	3779.9
65°	3191.3	3275.9	3697.0	4092.7	4319.4	4116.4	4091.1	3793.4	3830.6	3752.8	4150.2
67.5°	3017.1	3049.3	3489.0	4150.2	4590.0	4532.5	4522.3	4121.5	4104.6	3960.8	4255.1
70°	2452.3	2491.2	2925.8	3856.0	4681.3	5017.8	4994.2	4581.5	4290.6	3847.5	3717.3
72.5°	1405.4	1483.2	2027.8	2969.8	4206.1	5153.1	5175.1	4655.9	4070.8	3235.3	2482.7
75°	460.0	482.0	842.2	1682.8	3145.7	4495.3	4456.4	4001.4	3284.3	2136.0	1121.3
77.5°	155.6	159.0	248.6	608.8	1743.6	3037.4	3059.4	2859.8	2017.6	887.9	309.5
80°	79.5	84.6	121.8	228.3	717.1	1654.0	1689.5	1630.3	845.6	262.1	74.4
82.5°	37.2	38.9	71.0	126.8	328.1	649.4	649.4	713.7	299.3	147.1	30.4
85°	13.5	13.5	37.2	72.7	138.7	216.5	218.2	219.9	157.3	109.9	13.5
87.5°	5.1	5.1	18.6	30.4	50.7	66.0	66.0	52.4	79.5	72.7	5.1
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°	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6
2.5°	712.0	701.9	693.4	681.6	666.3	657.9	659.6	649.4	649.4	644.4	642.7
5°	712.0	701.9	679.9	659.6	646.0	629.1	620.7	613.9	613.9	610.5	612.2
7.5°	717.1	701.9	671.4	644.4	622.4	605.5	591.9	590.2	586.9	578.4	585.2
10°	747.5	725.5	674.8	637.6	612.2	593.6	569.9	563.2	553.0	537.8	539.5
12.5°	772.9	744.1	698.5	647.7	615.6	585.2	531.0	471.8	446.5	419.4	421.1
15°	810.1	769.5	706.9	661.3	615.6	517.5	419.4	343.3	302.7	282.4	282.4
17.5°	830.4	796.6	730.6	669.7	566.6	421.1	297.7	231.7	224.9	228.3	228.3
20°	872.7	827.0	757.7	676.5	485.4	299.3	218.2	211.4	214.8	221.5	219.9
22.5°	899.7	854.1	778.0	646.0	375.5	214.8	204.6	201.3	204.6	213.1	213.1
25°	921.7	893.0	810.1	571.6	265.5	194.5	191.1	194.5	197.9	201.3	206.3
27.5°	975.8	926.8	832.1	475.2	191.1	181.0	184.3	186.0	186.0	191.1	192.8
30°	1011.3	972.5	849.0	367.0	169.1	167.4	170.8	172.5	174.2	179.3	181.0
32.5°	1045.2	1031.6	827.0	248.6	159.0	155.6	153.9	155.6	162.4	167.4	165.7
35°	1094.2	1085.8	794.9	172.5	148.8	142.1	138.7	140.4	145.4	150.5	148.8
37.5°	1153.4	1161.9	717.1	150.5	138.7	130.2	123.5	123.5	125.2	130.2	131.9
40°	1222.8	1244.7	625.8	140.4	131.9	121.8	115.0	106.5	104.9	103.2	104.9
42.5°	1349.6	1375.0	522.6	133.6	121.8	109.9	99.8	89.6	81.2	76.1	76.1
45°	1527.2	1506.9	387.3	126.8	116.7	99.8	84.6	72.7	60.9	55.8	55.8
47.5°	1772.4	1703.1	265.5	120.1	108.2	87.9	71.0	55.8	45.7	40.6	40.6
50°	2112.3	1884.0	172.5	113.3	103.2	76.1	57.5	40.6	33.8	32.1	33.8
52.5°	2433.7	2068.4	137.0	104.9	93.0	66.0	44.0	33.8	30.4	28.8	28.8
55°	2729.6	2161.4	121.8	96.4	84.6	54.1	37.2	28.8	27.1	25.4	25.4
57.5°	2979.9	2193.5	104.9	84.6	67.6	42.3	30.4	25.4	22.0	20.3	20.3
60°	3196.4	2202.0	81.2	67.6	49.0	32.1	25.4	22.0	18.6	15.2	15.2
62.5°	3368.9	2142.8	57.5	47.4	33.8	25.4	22.0	15.2	10.1	6.8	5.1
65°	3505.9	2024.4	38.9	32.1	22.0	18.6	13.5	6.8	1.7	0.0	0.0
67.5°	3345.2	1755.5	30.4	23.7	15.2	11.8	6.8	1.7	0.0	0.0	0.0
70°	2727.9	1361.4	22.0	15.2	10.1	3.4	1.7	0.0	0.0	0.0	0.0
72.5°	1857.0	877.7	16.9	10.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0
75°	833.8	314.6	11.8	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	202.9	74.4	8.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	54.1	18.6	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.3	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	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)