

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: P180102

Luminaire Tested: **ICM-F05-LED-E1-5WQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180102  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F05-LED-E1-5WQ-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (35) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11165.5 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

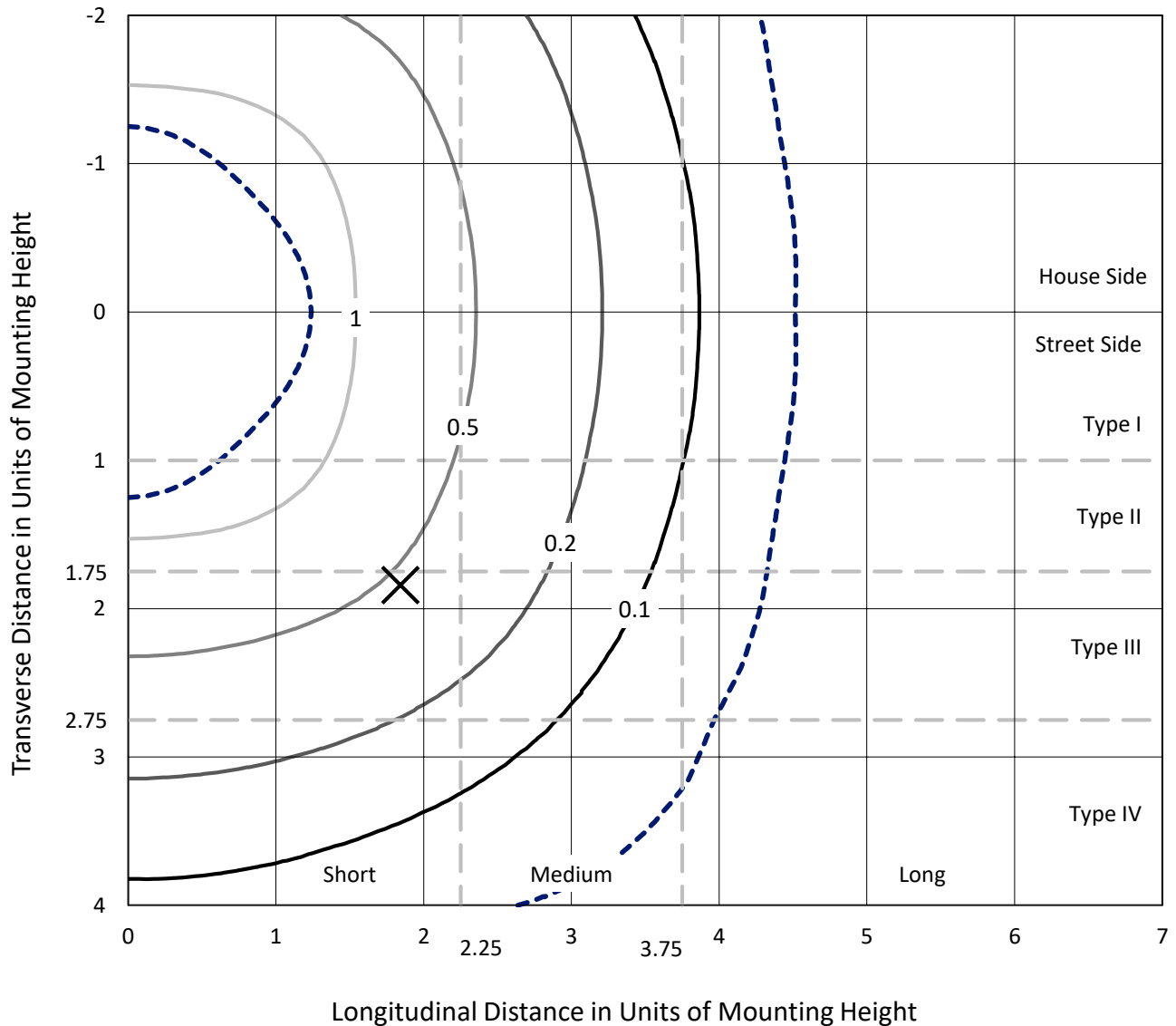
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

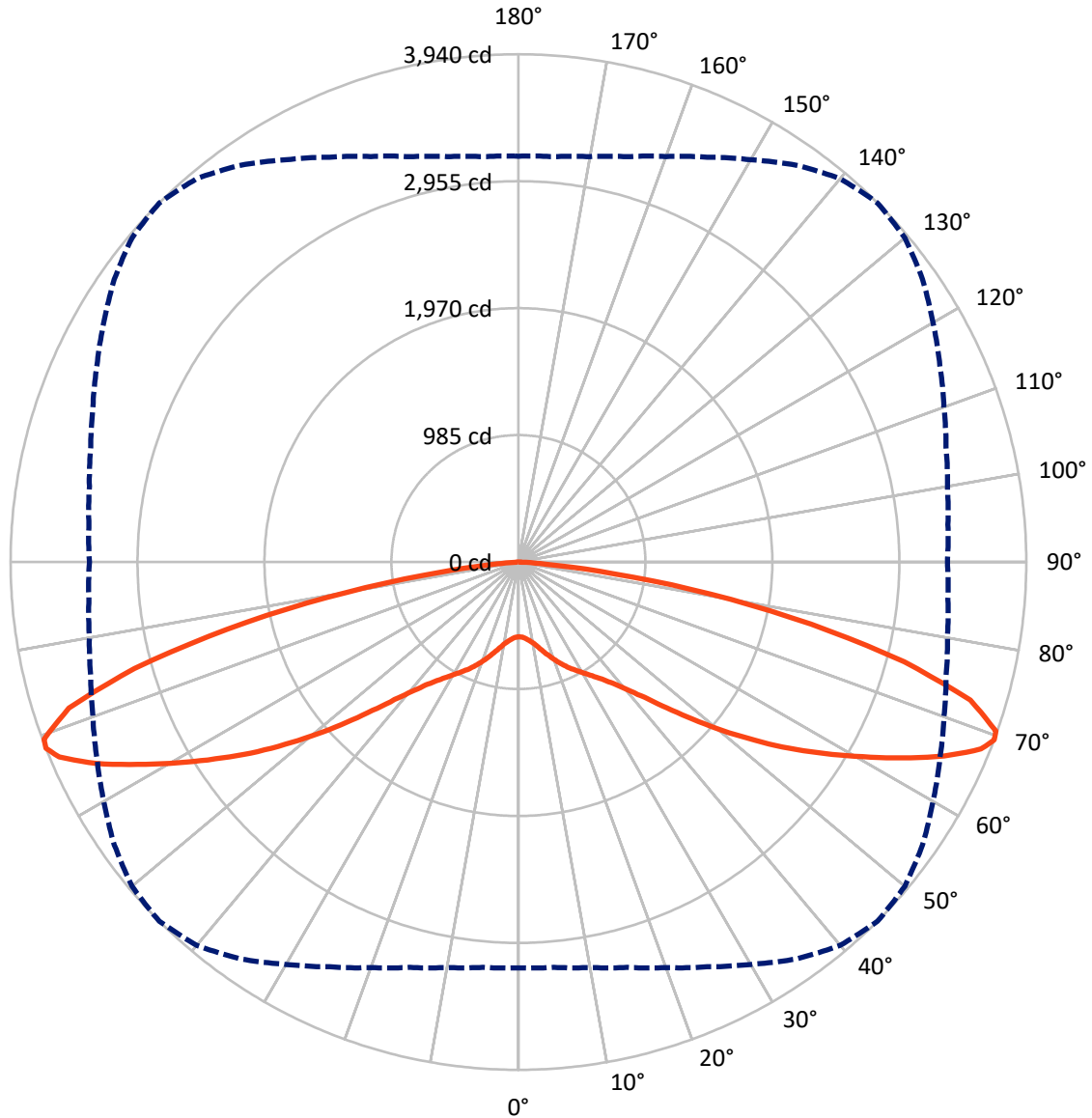
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5582.7	0.0	5582.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5582.7	0.0	5582.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11165.5	0.0	11165.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	0.5
10°-20°	205.6	1.8
20°-30°	416.3	3.7
30°-40°	698.0	6.3
40°-50°	1231.1	11.0
50°-60°	2171.1	19.4
60°-70°	3314.6	29.7
70°-80°	2769.7	24.8
80°-90°	301.0	2.7
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°	11165.5	100.0
0°-180°	11165.5	100.0



REPORT NUMBER: P180102

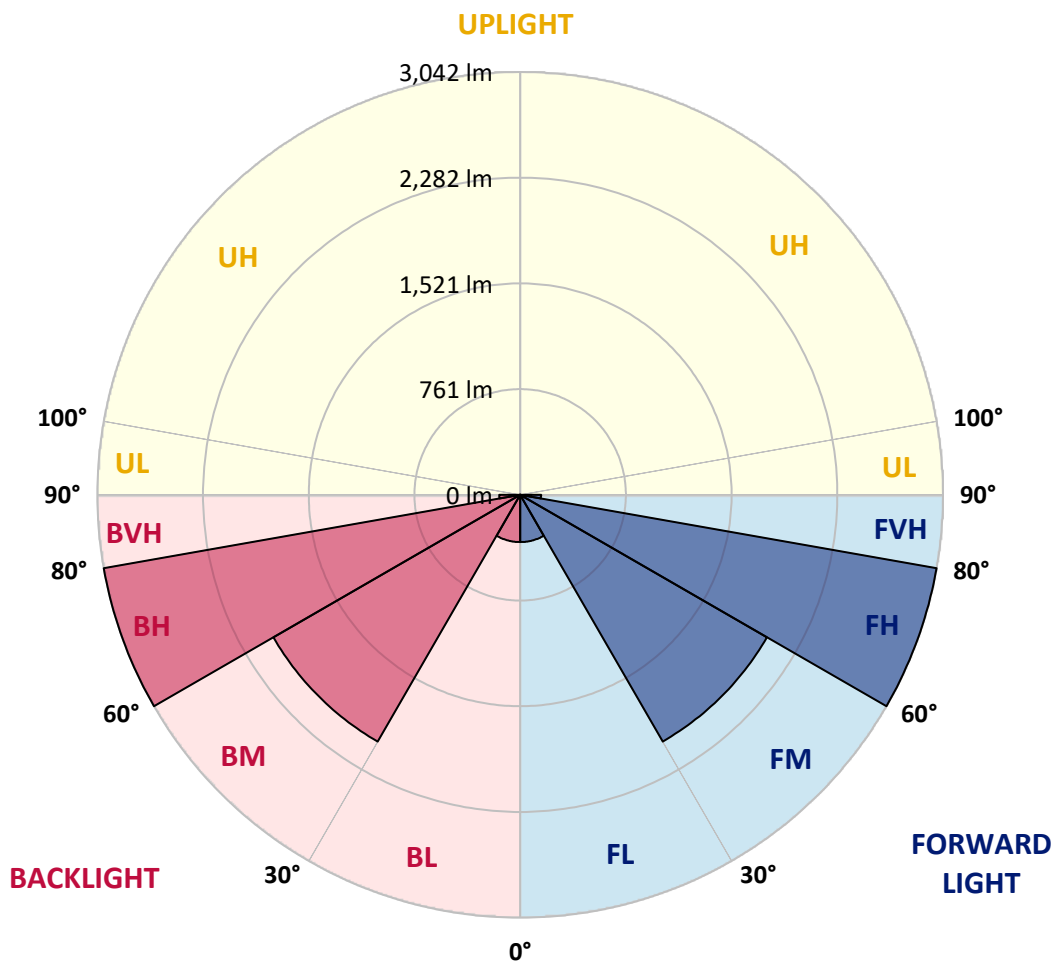
CATALOG NUMBER: ICM-F05-LED-E1-5WQ-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.1	3.0			
FM	(30°-60°)	2050.1	18.4			
FH	(60°-80°)	3042.1	27.2			G2/5000
FVH	(80°-90°)	150.5	1.3			G2/225
BL	(0°-30°)	340.1	3.0	B1/500		
BM	(30°-60°)	2050.1	18.4	B2/2500		
BH	(60°-80°)	3042.1	27.2	B4/5000		G2/5000
BVH	(80°-90°)	150.5	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





REPORT NUMBER: P180102

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	584.5	585.7	584.5	584.5	584.5	584.5	584.5	583.4	583.4	583.4	584.5
5°	596.2	597.4	596.2	597.4	597.4	597.4	597.4	596.2	596.2	596.2	596.2
7.5°	614.9	614.9	614.9	616.1	614.9	614.9	616.1	614.9	614.9	614.9	614.9
10°	641.8	640.6	640.6	640.6	640.6	640.6	641.8	641.8	641.8	640.6	640.6
12.5°	674.5	673.3	674.5	674.5	675.6	675.6	675.6	675.6	675.6	675.6	674.5
15°	714.2	714.2	714.2	715.4	717.8	717.8	716.6	717.8	717.8	717.8	717.8
17.5°	758.7	761.0	758.7	759.8	761.0	759.8	762.1	763.4	764.6	763.4	759.8
20°	804.3	805.4	805.4	805.4	805.4	807.7	808.9	808.9	812.5	811.3	810.1
22.5°	847.5	849.9	849.9	851.0	851.0	854.5	854.5	854.5	856.8	859.2	856.8
25°	893.1	891.9	891.9	894.2	895.4	900.1	900.1	902.4	906.0	907.2	904.8
27.5°	934.1	932.8	932.8	936.4	937.5	943.4	943.4	948.0	950.4	951.5	949.2
30°	977.3	977.3	976.1	979.6	983.1	987.8	990.1	994.8	998.3	999.4	997.1
32.5°	1028.8	1026.3	1027.5	1029.9	1032.2	1036.9	1040.4	1046.2	1050.9	1052.1	1049.8
35°	1087.2	1083.6	1084.8	1087.2	1090.7	1097.7	1103.5	1107.1	1114.1	1116.4	1111.7
37.5°	1151.4	1152.7	1151.4	1157.3	1163.2	1171.4	1178.3	1183.0	1190.1	1193.5	1190.1
40°	1242.6	1239.2	1242.6	1248.5	1257.9	1268.4	1282.4	1285.9	1292.9	1299.9	1291.7
42.5°	1360.7	1358.3	1366.5	1371.3	1381.8	1393.4	1411.0	1420.3	1430.8	1435.5	1428.5
45°	1515.0	1515.0	1524.4	1525.5	1541.9	1557.1	1581.7	1593.3	1613.2	1613.2	1613.2
47.5°	1685.7	1692.7	1698.5	1710.2	1722.0	1750.0	1774.5	1800.2	1819.0	1821.3	1817.8
50°	1862.2	1869.2	1886.7	1903.1	1928.8	1963.9	1990.8	2024.7	2041.0	2055.1	2050.4
52.5°	2057.4	2058.6	2079.6	2100.7	2138.1	2176.7	2219.9	2255.0	2284.2	2297.0	2286.5
55°	2271.4	2273.7	2292.4	2314.6	2356.7	2401.1	2454.9	2491.1	2528.5	2551.9	2534.3
57.5°	2502.8	2504.0	2522.7	2549.6	2599.8	2644.3	2695.6	2747.1	2782.2	2803.3	2791.6
60°	2758.8	2764.7	2778.7	2812.6	2860.5	2907.3	2958.7	3004.3	3045.2	3067.5	3055.7
62.5°	3032.4	3038.2	3058.1	3084.9	3127.1	3178.4	3227.6	3286.1	3319.9	3344.5	3326.9
65°	3215.9	3226.4	3258.0	3294.3	3356.2	3422.8	3480.1	3559.6	3600.5	3629.7	3613.3
67.5°	3227.6	3233.4	3272.0	3326.9	3410.0	3510.4	3627.4	3751.3	3831.9	3870.5	3842.4
69°	3148.1	3156.3	3193.7	3255.6	3348.0	3464.9	3604.0	3758.3	3882.3	3939.5	3912.6
70°	3058.1	3075.6	3116.5	3184.3	3274.3	3397.0	3540.9	3705.7	3850.6	3929.0	3909.1
72.5°	2868.7	2873.4	2900.3	2954.1	3023.0	3124.7	3260.3	3415.7	3553.7	3666.0	3682.3
75°	2546.1	2561.2	2581.1	2617.4	2652.5	2726.1	2817.2	2923.6	3004.3	3090.8	3094.3
77.5°	1924.2	1969.8	1984.9	1993.1	2008.3	2066.8	2146.2	2238.6	2305.2	2319.3	2316.9
80°	863.9	924.7	938.7	1005.3	1046.2	1143.3	1264.8	1406.3	1500.9	1511.5	1485.8
82.5°	169.5	181.2	211.6	264.2	360.0	417.3	496.8	596.2	687.4	740.0	708.4
85°	56.1	59.6	68.9	76.0	87.6	99.3	120.4	149.7	185.9	205.8	183.5
87.5°	22.2	22.2	25.7	28.1	30.4	30.4	30.4	28.1	26.9	22.2	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180102

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4
5°	596.2	595.0	595.0	593.9	593.9	593.9	593.9	593.9
7.5°	613.7	612.6	611.4	612.6	611.4	611.4	611.4	611.4
10°	640.6	638.2	637.1	635.9	635.9	635.9	634.8	634.8
12.5°	672.2	672.2	671.0	669.9	667.5	668.7	667.5	665.1
15°	715.4	713.1	711.9	710.7	708.4	708.4	708.4	707.3
17.5°	758.7	756.4	756.4	752.8	751.6	751.6	751.6	752.8
20°	806.6	803.1	800.7	798.4	796.1	797.2	794.9	797.2
22.5°	854.5	849.9	847.5	844.0	840.5	840.5	839.4	837.0
25°	901.3	895.4	893.1	889.6	884.9	884.9	882.6	880.3
27.5°	945.7	939.9	937.5	930.5	925.9	924.7	922.3	921.1
30°	994.8	987.8	984.3	977.3	970.2	969.1	965.6	965.6
32.5°	1046.2	1039.3	1036.9	1026.3	1020.6	1020.6	1018.1	1015.8
35°	1110.5	1100.0	1097.7	1087.2	1079.0	1079.0	1076.7	1077.8
37.5°	1186.5	1178.3	1170.1	1162.0	1152.7	1151.4	1149.1	1146.8
40°	1288.2	1278.9	1269.5	1257.9	1249.7	1247.4	1243.8	1242.6
42.5°	1423.8	1414.5	1395.7	1386.4	1378.2	1371.3	1370.1	1368.8
45°	1596.8	1585.1	1572.3	1554.8	1544.2	1529.0	1526.7	1520.8
47.5°	1804.9	1782.7	1760.5	1745.3	1728.9	1711.4	1707.9	1698.5
50°	2025.9	2008.3	1970.9	1946.3	1920.7	1903.1	1891.5	1887.9
52.5°	2263.2	2230.4	2193.0	2160.3	2122.9	2099.5	2078.4	2072.7
55°	2511.0	2464.2	2417.5	2378.9	2341.5	2313.4	2293.6	2284.2
57.5°	2758.8	2707.4	2655.9	2613.9	2582.3	2546.1	2526.2	2521.5
60°	3017.1	2968.0	2915.5	2873.4	2834.8	2803.3	2791.6	2769.3
62.5°	3290.7	3239.3	3190.2	3149.2	3100.2	3078.0	3058.1	3045.2
65°	3559.6	3499.9	3438.0	3394.7	3345.6	3314.1	3289.5	3272.0
67.5°	3767.7	3677.6	3594.6	3522.2	3455.6	3406.4	3374.9	3358.5
69°	3826.1	3713.9	3607.5	3512.9	3434.5	3379.6	3344.5	3328.1
70°	3819.1	3695.2	3578.3	3474.3	3388.9	3330.4	3296.6	3266.2
72.5°	3602.8	3489.4	3359.6	3246.3	3169.1	3113.0	3079.1	3062.7
75°	3074.4	2998.4	2904.9	2817.2	2761.1	2728.4	2686.3	2687.6
77.5°	2238.6	2240.9	2177.8	2087.8	2024.7	2013.0	1994.3	1975.5
80°	1388.8	1277.7	1205.2	1108.2	1036.9	975.0	948.0	889.6
82.5°	640.6	500.3	388.1	293.4	225.6	176.6	154.3	126.2
85°	142.6	108.7	90.0	72.5	62.0	57.3	46.8	43.3
87.5°	19.9	17.5	16.4	15.2	12.8	9.4	7.0	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)