

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: P180097

Luminaire Tested: **ICM-E05-LED-E1-5WQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180097  
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-E05-LED-E1-5WQ-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (105) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13525.3 lumens  
Efficiency: N/A  
Efficacy: 106.2 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

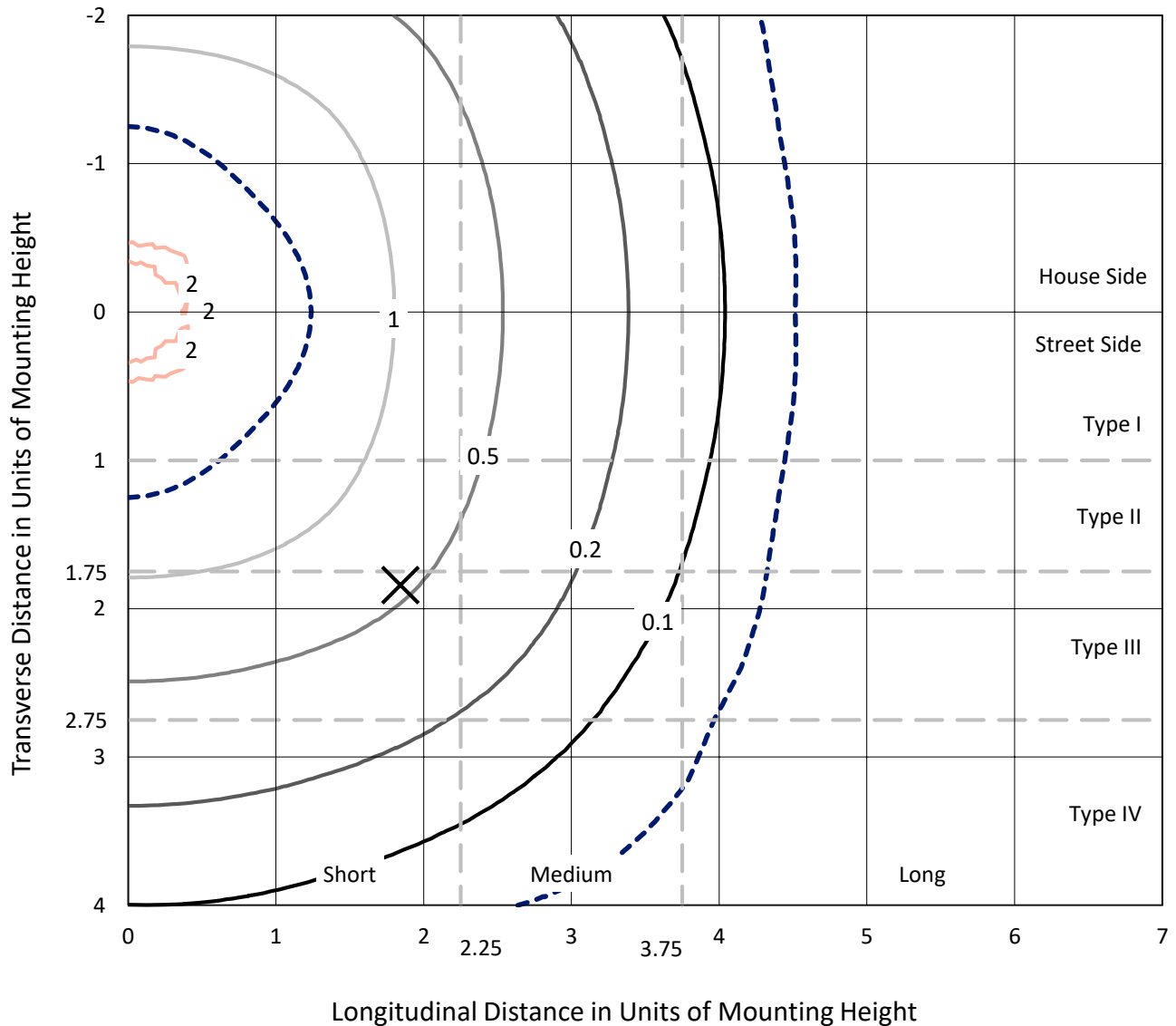
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

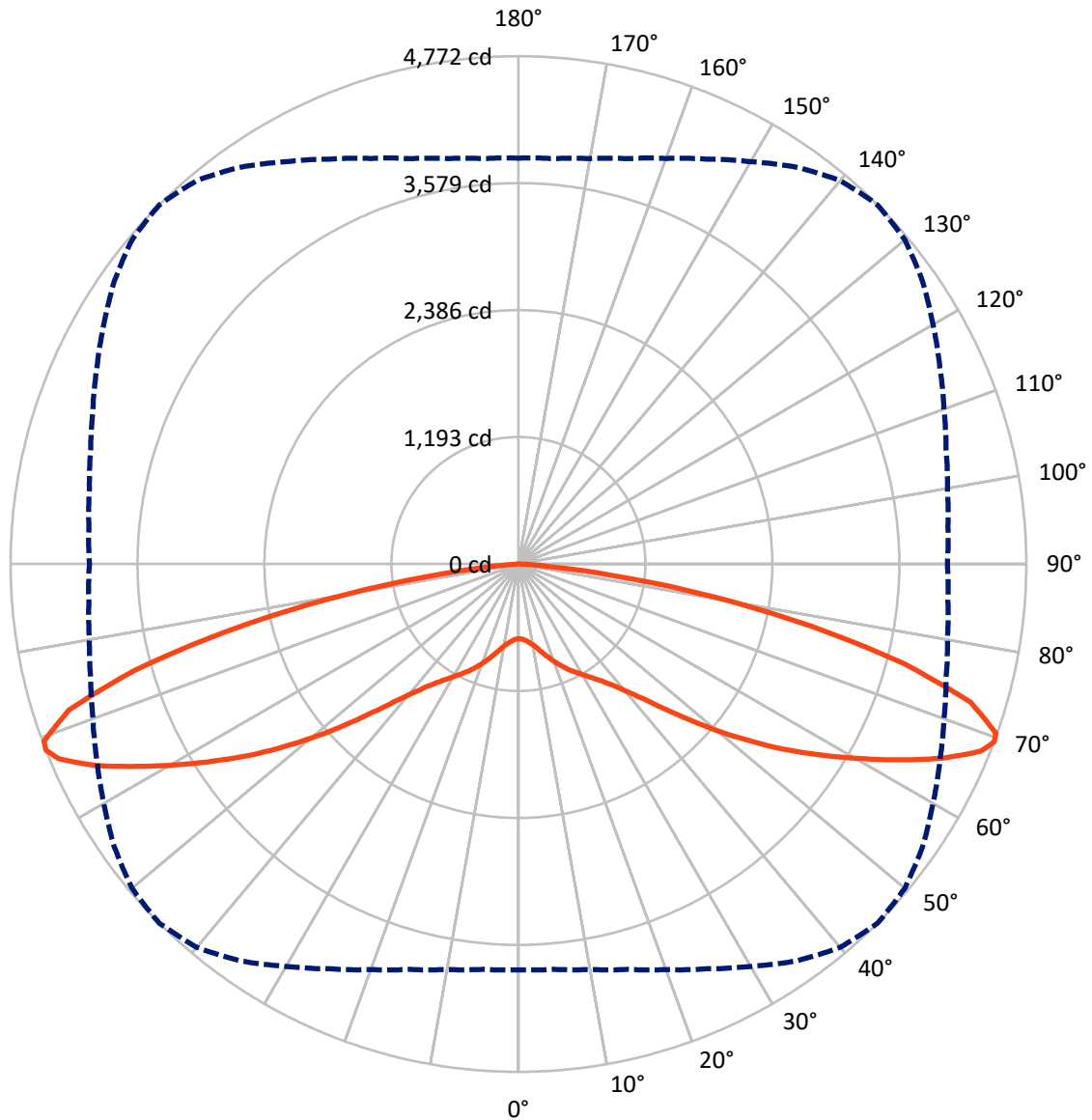
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 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	6762.6	0.0	6762.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6762.6	0.0	6762.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13525.3	0.0	13525.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.5	0.5
10°-20°	249.0	1.8
20°-30°	504.3	3.7
30°-40°	845.5	6.3
40°-50°	1491.3	11.0
50°-60°	2629.9	19.4
60°-70°	4015.1	29.7
70°-80°	3355.1	24.8
80°-90°	364.6	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°	13525.3	100.0
0°-180°	13525.3	100.0



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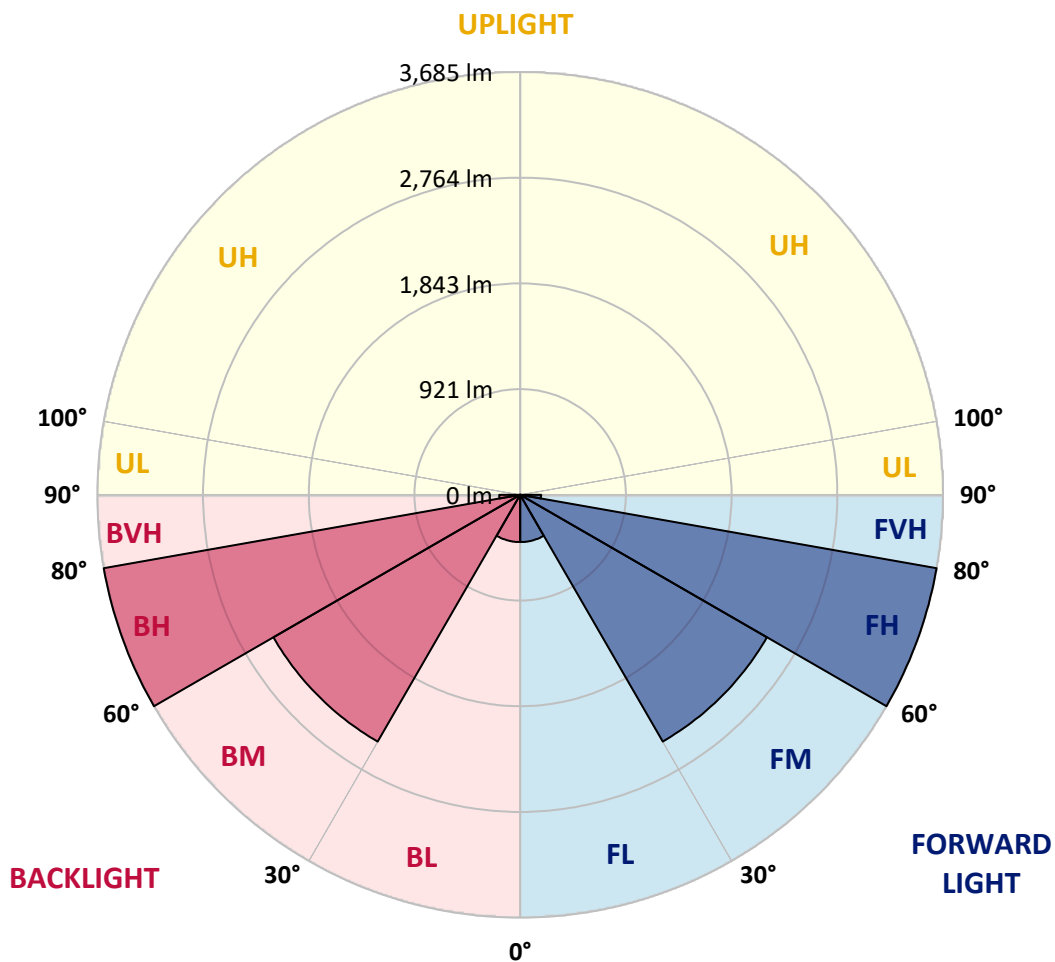
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.9	3.0			
FM (30°-60°)	2483.4	18.4			
FH (60°-80°)	3685.1	27.2			G2/5000
FVH (80°-90°)	182.3	1.3			G2/225
BL (0°-30°)	411.9	3.0	B1/500		
BM (30°-60°)	2483.4	18.4	B2/2500		
BH (60°-80°)	3685.1	27.2	B4/5000		G2/5000
BVH (80°-90°)	182.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
2.5°	708.0	709.4	708.0	708.0	708.0	708.0	708.0	706.6	706.6	706.6	708.0
5°	722.1	723.6	722.1	723.6	723.6	723.6	723.6	722.1	722.1	722.1	722.1
7.5°	744.8	744.8	744.8	746.2	744.8	744.8	746.2	744.8	744.8	744.8	744.8
10°	777.4	776.0	776.0	776.0	776.0	776.0	777.4	777.4	777.4	776.0	776.0
12.5°	817.0	815.6	817.0	817.0	818.5	818.5	818.5	818.5	818.5	818.5	817.0
15°	865.2	865.2	865.2	866.6	869.5	869.5	868.0	869.5	869.5	869.5	869.5
17.5°	919.0	921.9	919.0	920.5	921.9	920.5	923.3	924.7	926.1	924.7	920.5
20°	974.2	975.6	975.6	975.6	975.6	978.5	979.9	979.9	984.2	982.7	981.3
22.5°	1026.6	1029.5	1029.5	1030.9	1030.9	1035.2	1035.2	1035.2	1038.0	1040.8	1038.0
25°	1081.9	1080.5	1080.5	1083.3	1084.7	1090.3	1090.3	1093.2	1097.4	1098.9	1096.0
27.5°	1131.4	1130.1	1130.1	1134.2	1135.6	1142.8	1142.8	1148.4	1151.3	1152.7	1149.9
30°	1183.8	1183.8	1182.4	1186.6	1190.9	1196.6	1199.4	1205.0	1209.3	1210.7	1207.9
32.5°	1246.1	1243.3	1244.8	1247.5	1250.3	1256.0	1260.3	1267.4	1273.0	1274.4	1271.6
35°	1316.9	1312.7	1314.1	1316.9	1321.2	1329.7	1336.8	1341.0	1349.5	1352.3	1346.7
37.5°	1394.8	1396.2	1394.8	1401.9	1408.9	1418.9	1427.4	1433.0	1441.6	1445.8	1441.6
40°	1505.3	1501.0	1505.3	1512.4	1523.6	1536.4	1553.4	1557.7	1566.1	1574.6	1564.8
42.5°	1648.3	1645.5	1655.4	1661.0	1673.8	1687.9	1709.2	1720.5	1733.2	1738.9	1730.4
45°	1835.2	1835.2	1846.5	1847.9	1867.7	1886.2	1915.9	1930.1	1954.2	1954.2	1954.2
47.5°	2042.0	2050.4	2057.5	2071.7	2085.9	2119.8	2149.6	2180.8	2203.4	2206.2	2202.0
50°	2255.7	2264.3	2285.5	2305.3	2336.5	2379.0	2411.5	2452.6	2472.4	2489.4	2483.7
52.5°	2492.3	2493.7	2519.2	2544.7	2590.0	2636.7	2689.1	2731.6	2767.0	2782.5	2769.8
55°	2751.4	2754.2	2776.9	2803.8	2854.8	2908.6	2973.7	3017.6	3062.9	3091.3	3070.0
57.5°	3031.7	3033.2	3055.8	3088.4	3149.3	3203.1	3265.4	3327.7	3370.3	3395.7	3381.5
60°	3341.9	3349.0	3366.0	3407.0	3465.0	3521.7	3584.0	3639.3	3688.9	3715.7	3701.6
62.5°	3673.2	3680.3	3704.4	3737.0	3787.9	3850.3	3909.7	3980.5	4021.6	4051.4	4030.1
65°	3895.6	3908.3	3946.5	3990.4	4065.5	4146.2	4215.6	4311.9	4361.4	4396.9	4377.1
67.5°	3909.7	3916.8	3963.6	4030.1	4130.6	4252.4	4394.0	4544.1	4641.8	4688.6	4654.5
69°	3813.4	3823.4	3868.7	3943.7	4055.6	4197.2	4365.7	4552.6	4702.7	4772.1	4739.6
70°	3704.4	3725.6	3775.2	3857.3	3966.3	4115.1	4289.2	4488.9	4664.5	4759.4	4735.3
72.5°	3475.0	3480.7	3513.2	3578.3	3661.9	3785.1	3949.4	4137.7	4304.8	4440.8	4460.6
75°	3084.2	3102.6	3126.6	3170.5	3213.0	3302.3	3412.7	3541.5	3639.3	3744.0	3748.3
77.5°	2330.8	2386.1	2404.5	2414.3	2432.8	2503.6	2599.9	2711.7	2792.5	2809.4	2806.6
80°	1046.4	1120.1	1137.1	1217.8	1267.4	1384.9	1532.2	1703.5	1818.2	1831.0	1799.8
82.5°	205.3	219.4	256.3	320.0	436.2	505.5	601.9	722.1	832.7	896.4	858.1
85°	68.0	72.2	83.5	92.0	106.2	120.4	145.9	181.2	225.1	249.2	222.3
87.5°	26.9	26.9	31.2	34.0	36.8	36.8	36.8	34.0	32.6	26.9	24.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
2.5°	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
5°	722.1	720.7	720.7	719.4	719.4	719.4	719.4	719.4
7.5°	743.4	742.1	740.6	742.1	740.6	740.6	740.6	740.6
10°	776.0	773.1	771.7	770.3	770.3	770.3	768.9	768.9
12.5°	814.2	814.2	812.8	811.4	808.6	810.0	808.6	805.8
15°	866.6	863.8	862.4	860.9	858.1	858.1	858.1	856.7
17.5°	919.0	916.2	916.2	911.9	910.5	910.5	910.5	911.9
20°	977.1	972.8	970.0	967.2	964.4	965.8	962.9	965.8
22.5°	1035.2	1029.5	1026.6	1022.4	1018.1	1018.1	1016.8	1013.9
25°	1091.8	1084.7	1081.9	1077.6	1071.9	1071.9	1069.1	1066.3
27.5°	1145.6	1138.5	1135.6	1127.2	1121.5	1120.1	1117.3	1115.8
30°	1205.0	1196.6	1192.3	1183.8	1175.4	1173.9	1169.7	1169.7
32.5°	1267.4	1258.9	1256.0	1243.3	1236.2	1236.2	1233.4	1230.5
35°	1345.2	1332.5	1329.7	1316.9	1307.0	1307.0	1304.2	1305.6
37.5°	1437.3	1427.4	1417.5	1407.5	1396.2	1394.8	1392.0	1389.1
40°	1560.5	1549.1	1537.9	1523.6	1513.8	1510.9	1506.7	1505.3
42.5°	1724.8	1713.4	1690.8	1679.5	1669.5	1661.0	1659.6	1658.2
45°	1934.3	1920.2	1904.6	1883.4	1870.6	1852.2	1849.4	1842.2
47.5°	2186.4	2159.5	2132.6	2114.2	2094.3	2073.1	2068.8	2057.5
50°	2454.1	2432.8	2387.5	2357.7	2326.6	2305.3	2291.2	2286.9
52.5°	2741.5	2701.9	2656.5	2616.9	2571.6	2543.3	2517.8	2510.7
55°	3041.7	2985.0	2928.4	2881.7	2836.4	2802.3	2778.3	2767.0
57.5°	3341.9	3279.6	3217.3	3166.3	3128.1	3084.2	3060.1	3054.4
60°	3654.8	3595.4	3531.6	3480.7	3434.0	3395.7	3381.5	3354.6
62.5°	3986.2	3923.9	3864.4	3814.8	3755.4	3728.5	3704.4	3688.9
65°	4311.9	4239.7	4164.6	4112.2	4052.8	4014.5	3984.8	3963.6
67.5°	4563.9	4454.9	4354.4	4266.5	4185.9	4126.4	4088.1	4068.3
69°	4634.7	4498.8	4370.0	4255.3	4160.4	4093.8	4051.4	4031.5
70°	4626.3	4476.1	4334.5	4208.5	4105.1	4034.4	3993.2	3956.5
72.5°	4364.3	4226.9	4069.7	3932.4	3838.9	3771.0	3729.9	3710.1
75°	3724.2	3632.2	3518.9	3412.7	3344.8	3305.0	3254.1	3255.6
77.5°	2711.7	2714.6	2638.2	2529.0	2452.6	2438.4	2415.8	2393.1
80°	1682.2	1547.7	1459.9	1342.4	1256.0	1181.0	1148.4	1077.6
82.5°	776.0	606.1	470.1	355.4	273.3	213.9	186.9	152.9
85°	172.7	131.7	109.0	87.8	75.1	69.4	56.7	52.4
87.5°	24.1	21.2	19.8	18.4	15.5	11.3	8.5	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)