

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: P180098

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180098  
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  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14808.4 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

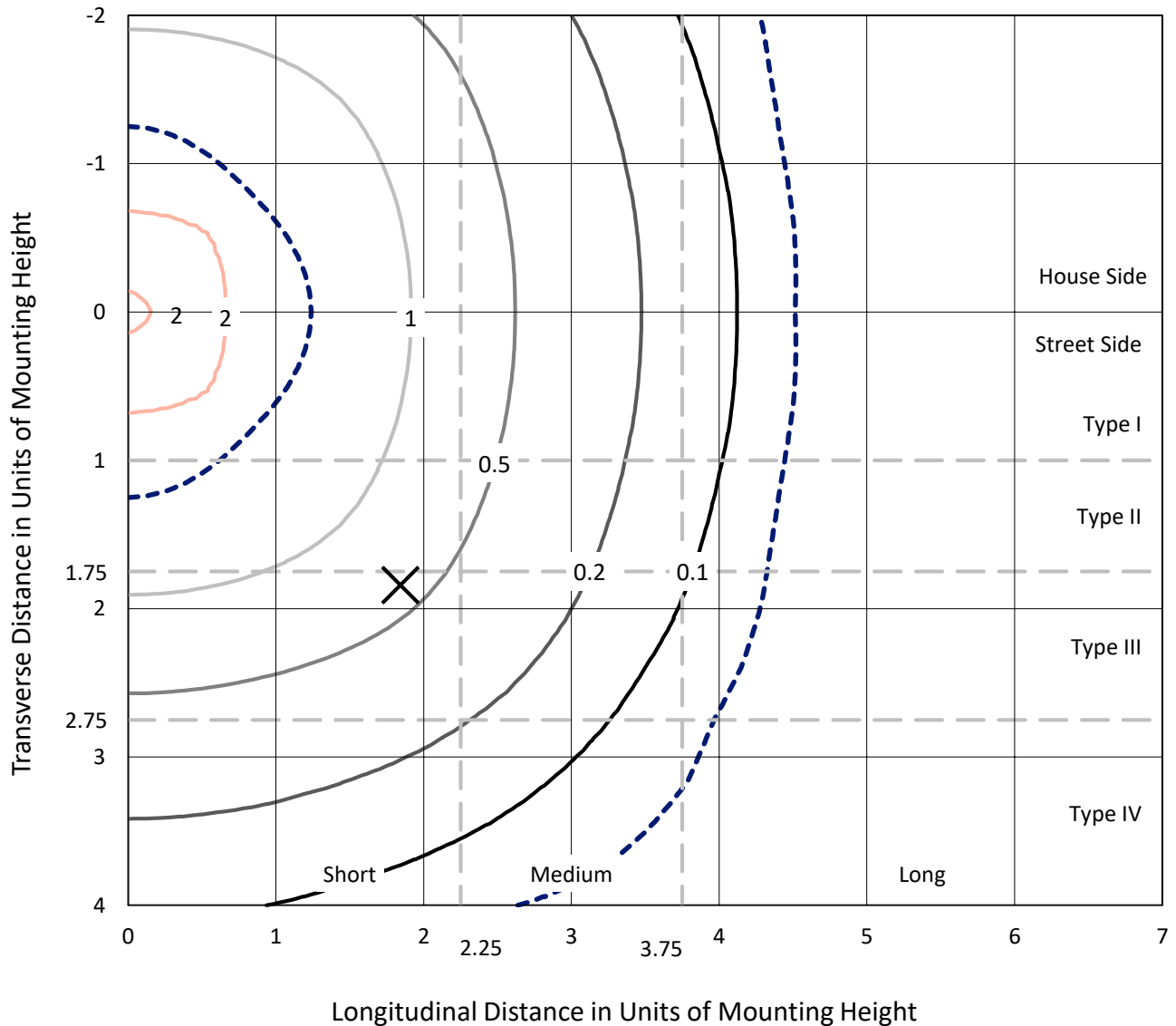


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### Iso-Footcandle Lines of Horizontal Illumination

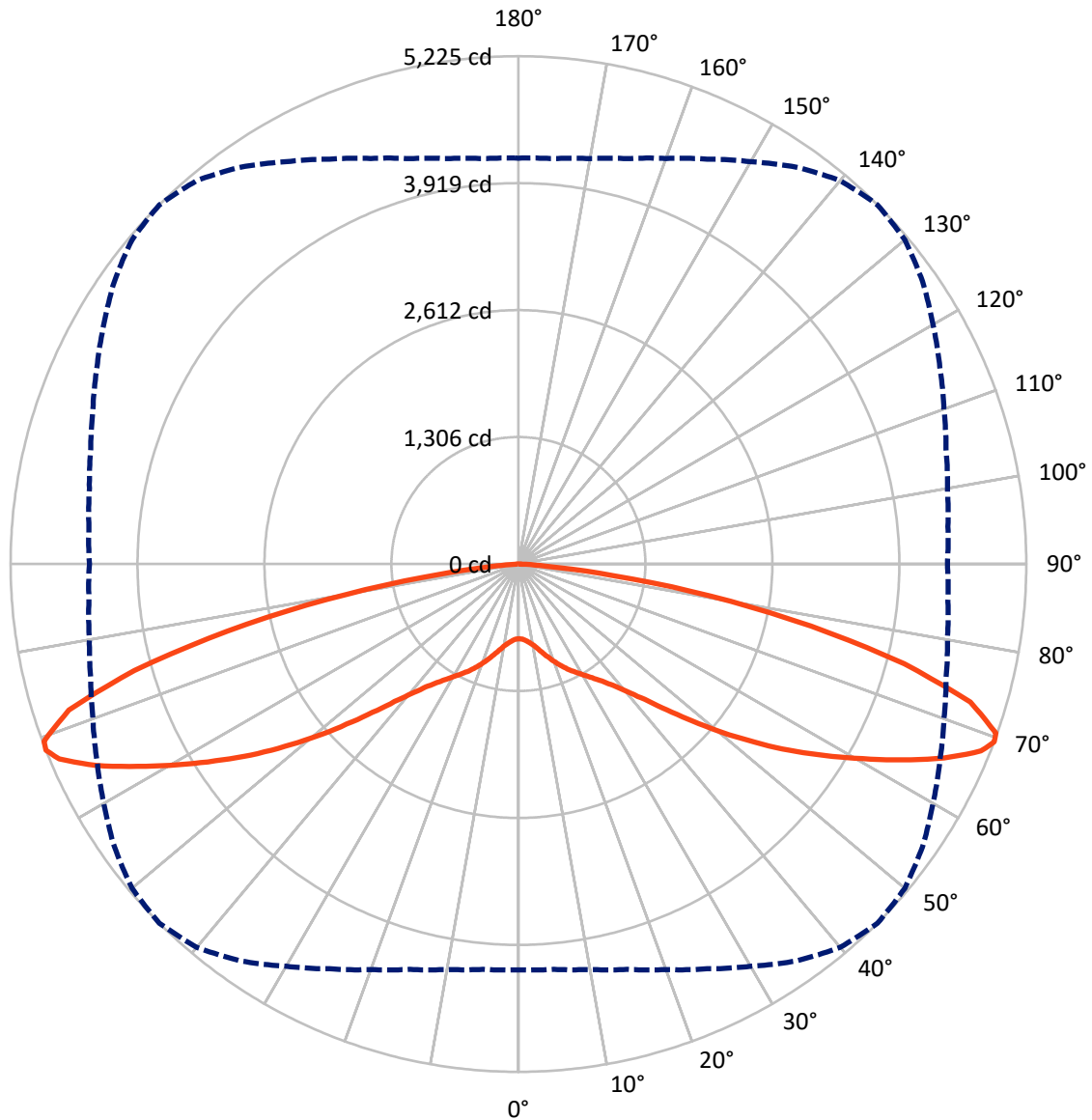
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 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	7404.2	0.0	7404.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7404.2	0.0	7404.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14808.4	0.0	14808.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	0.5
10°-20°	272.7	1.8
20°-30°	552.1	3.7
30°-40°	925.7	6.3
40°-50°	1632.8	11.0
50°-60°	2879.4	19.4
60°-70°	4396.0	29.7
70°-80°	3673.4	24.8
80°-90°	399.1	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°	14808.4	100.0
0°-180°	14808.4	100.0



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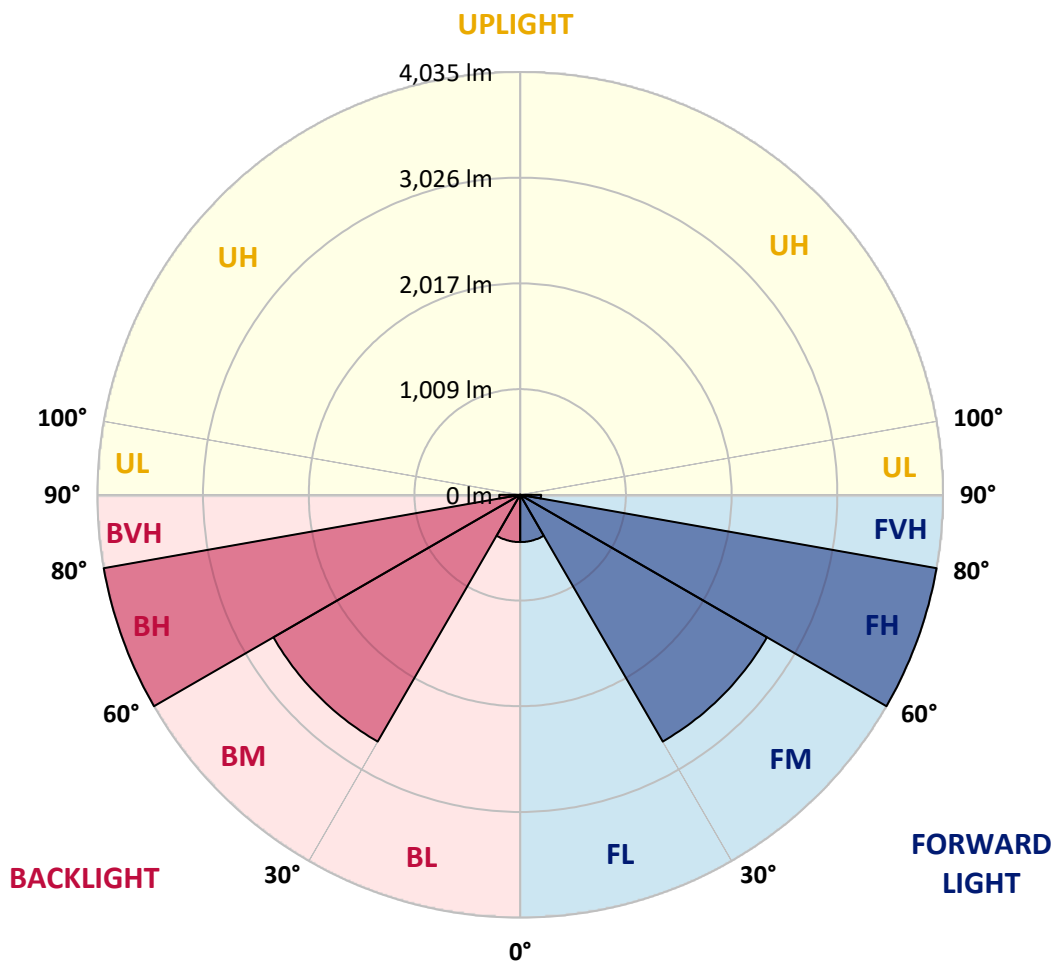
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.0	3.0			
FM	(30°-60°)	2718.9	18.4			
FH	(60°-80°)	4034.7	27.2			G2/5000
FVH	(80°-90°)	199.6	1.3			G2/225
BL	(0°-30°)	451.0	3.0	B1/500		
BM	(30°-60°)	2718.9	18.4	B3/5000		
BH	(60°-80°)	4034.7	27.2	B4/5000		G2/5000
BVH	(80°-90°)	199.6	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°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	775.2	776.7	775.2	775.2	775.2	775.2	775.2	773.7	773.7	773.7	775.2
5°	790.7	792.3	790.7	792.3	792.3	792.3	792.3	790.7	790.7	790.7	790.7
7.5°	815.5	815.5	815.5	817.0	815.5	815.5	817.0	815.5	815.5	815.5	815.5
10°	851.2	849.6	849.6	849.6	849.6	849.6	851.2	851.2	851.2	849.6	849.6
12.5°	894.6	893.0	894.6	894.6	896.1	896.1	896.1	896.1	896.1	896.1	894.6
15°	947.3	947.3	947.3	948.8	951.9	951.9	950.4	951.9	951.9	951.9	951.9
17.5°	1006.2	1009.3	1006.2	1007.7	1009.3	1007.7	1010.9	1012.4	1014.0	1012.4	1007.7
20°	1066.7	1068.2	1068.2	1068.2	1068.2	1071.4	1072.8	1072.8	1077.5	1076.0	1074.4
22.5°	1124.0	1127.2	1127.2	1128.7	1128.7	1133.3	1133.3	1133.3	1136.5	1139.5	1136.5
25°	1184.5	1183.0	1183.0	1186.1	1187.6	1193.8	1193.8	1196.9	1201.6	1203.1	1200.0
27.5°	1238.8	1237.2	1237.2	1241.9	1243.4	1251.2	1251.2	1257.4	1260.5	1262.1	1258.9
30°	1296.1	1296.1	1294.6	1299.3	1303.9	1310.1	1313.2	1319.4	1324.0	1325.6	1322.5
32.5°	1364.4	1361.2	1362.8	1365.9	1369.0	1375.2	1379.8	1387.6	1393.8	1395.4	1392.3
35°	1441.9	1437.2	1438.8	1441.9	1446.5	1455.8	1463.5	1468.2	1477.5	1480.7	1474.4
37.5°	1527.2	1528.7	1527.2	1534.9	1542.6	1553.5	1562.8	1569.0	1578.3	1583.0	1578.3
40°	1648.1	1643.5	1648.1	1655.8	1668.2	1682.1	1700.8	1705.4	1714.7	1724.0	1713.2
42.5°	1804.7	1801.6	1812.4	1818.6	1832.6	1848.1	1871.4	1883.7	1897.7	1903.9	1894.6
45°	2009.3	2009.3	2021.7	2023.3	2044.9	2065.1	2097.7	2113.2	2139.5	2139.5	2139.5
47.5°	2235.6	2244.9	2252.8	2268.2	2283.7	2320.9	2353.5	2387.6	2412.4	2415.5	2410.9
50°	2469.8	2479.1	2502.3	2524.0	2558.2	2604.7	2640.3	2685.3	2707.0	2725.6	2719.4
52.5°	2728.7	2730.2	2758.2	2786.1	2835.6	2886.8	2944.2	2990.7	3029.5	3046.5	3032.6
55°	3012.4	3015.6	3040.3	3069.8	3125.6	3184.5	3255.8	3303.9	3353.5	3384.5	3361.2
57.5°	3319.4	3321.0	3345.8	3381.4	3448.1	3507.0	3575.2	3643.5	3690.0	3717.9	3702.3
60°	3658.9	3666.7	3685.3	3730.3	3793.8	3855.8	3924.0	3984.5	4038.8	4068.2	4052.8
62.5°	4021.7	4029.5	4055.8	4091.5	4147.3	4215.6	4280.7	4358.2	4403.1	4435.7	4412.4
65°	4265.1	4279.1	4321.0	4369.0	4451.2	4539.6	4615.6	4721.0	4775.2	4814.0	4792.3
67.5°	4280.7	4288.4	4339.6	4412.4	4522.5	4655.8	4810.9	4975.2	5082.2	5133.3	5096.1
69°	4175.2	4186.1	4235.7	4317.9	4440.3	4595.4	4779.8	4984.5	5148.9	5224.9	5189.1
70°	4055.8	4079.1	4133.3	4223.3	4342.6	4505.4	4696.1	4914.7	5107.0	5210.9	5184.5
72.5°	3804.7	3810.9	3846.5	3917.9	4009.3	4144.2	4324.0	4530.3	4713.2	4862.1	4883.8
75°	3376.8	3397.0	3423.3	3471.4	3517.9	3615.6	3736.5	3877.5	3984.5	4099.3	4103.9
77.5°	2551.9	2612.4	2632.6	2643.5	2663.6	2741.1	2846.5	2969.0	3057.4	3076.0	3072.9
80°	1145.8	1226.3	1244.9	1333.3	1387.6	1516.3	1677.5	1865.1	1990.7	2004.7	1970.5
82.5°	224.8	240.3	280.7	350.4	477.5	553.5	658.9	790.7	911.6	981.4	939.5
85°	74.4	79.1	91.4	100.7	116.3	131.8	159.7	198.4	246.5	272.8	243.4
87.5°	29.5	29.5	34.1	37.2	40.3	40.3	40.3	37.2	35.6	29.5	26.3
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°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7
5°	790.7	789.1	789.1	787.6	787.6	787.6	787.6	787.6
7.5°	814.0	812.4	810.9	812.4	810.9	810.9	810.9	810.9
10°	849.6	846.5	844.9	843.4	843.4	843.4	841.9	841.9
12.5°	891.4	891.4	890.0	888.4	885.3	886.8	885.3	882.1
15°	948.8	945.8	944.2	942.6	939.5	939.5	939.5	938.0
17.5°	1006.2	1003.1	1003.1	998.4	996.9	996.9	996.9	998.4
20°	1069.8	1065.1	1062.1	1058.9	1055.8	1057.4	1054.2	1057.4
22.5°	1133.3	1127.2	1124.0	1119.4	1114.7	1114.7	1113.2	1110.1
25°	1195.4	1187.6	1184.5	1179.8	1173.7	1173.7	1170.5	1167.4
27.5°	1254.2	1246.5	1243.4	1234.1	1227.9	1226.3	1223.3	1221.7
30°	1319.4	1310.1	1305.4	1296.1	1286.8	1285.3	1280.7	1280.7
32.5°	1387.6	1378.3	1375.2	1361.2	1353.5	1353.5	1350.4	1347.3
35°	1472.8	1458.9	1455.8	1441.9	1431.0	1431.0	1427.9	1429.5
37.5°	1573.7	1562.8	1551.9	1541.1	1528.7	1527.2	1524.0	1520.9
40°	1708.6	1696.1	1683.7	1668.2	1657.4	1654.2	1649.6	1648.1
42.5°	1888.4	1876.0	1851.2	1838.8	1827.9	1818.6	1817.0	1815.5
45°	2117.9	2102.3	2085.3	2062.1	2048.1	2027.9	2024.8	2017.0
47.5°	2393.8	2364.4	2334.9	2314.7	2293.0	2269.8	2265.1	2252.8
50°	2686.8	2663.6	2614.0	2581.4	2547.3	2524.0	2508.6	2503.9
52.5°	3001.6	2958.2	2908.6	2865.1	2815.6	2784.5	2756.6	2748.9
55°	3330.3	3268.2	3206.3	3155.1	3105.4	3068.2	3041.9	3029.5
57.5°	3658.9	3590.7	3522.5	3466.7	3424.9	3376.8	3350.4	3344.2
60°	4001.6	3936.5	3866.7	3810.9	3759.7	3717.9	3702.3	3672.9
62.5°	4364.4	4296.1	4231.0	4176.8	4111.7	4082.2	4055.8	4038.8
65°	4721.0	4641.9	4559.7	4502.4	4437.2	4395.4	4362.8	4339.6
67.5°	4997.0	4877.5	4767.5	4671.4	4583.0	4517.9	4476.0	4454.3
69°	5074.4	4925.6	4784.5	4658.9	4555.1	4482.2	4435.7	4414.0
70°	5065.1	4900.8	4745.8	4607.7	4494.6	4417.1	4372.1	4331.8
72.5°	4778.4	4627.9	4455.8	4305.4	4203.1	4128.7	4083.7	4062.1
75°	4077.5	3976.8	3852.8	3736.5	3662.1	3618.6	3562.8	3564.4
77.5°	2969.0	2972.1	2888.4	2769.0	2685.3	2669.8	2644.9	2620.2
80°	1841.9	1694.6	1598.4	1469.8	1375.2	1293.0	1257.4	1179.8
82.5°	849.6	663.5	514.7	389.1	299.3	234.1	204.7	167.4
85°	189.1	144.2	119.3	96.1	82.1	76.0	62.0	57.4
87.5°	26.3	23.3	21.7	20.2	17.0	12.4	9.3	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)