

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: P401692

Luminaire Tested: **ENT-SA1E-740-U-T3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1E-740-U-T3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7162 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

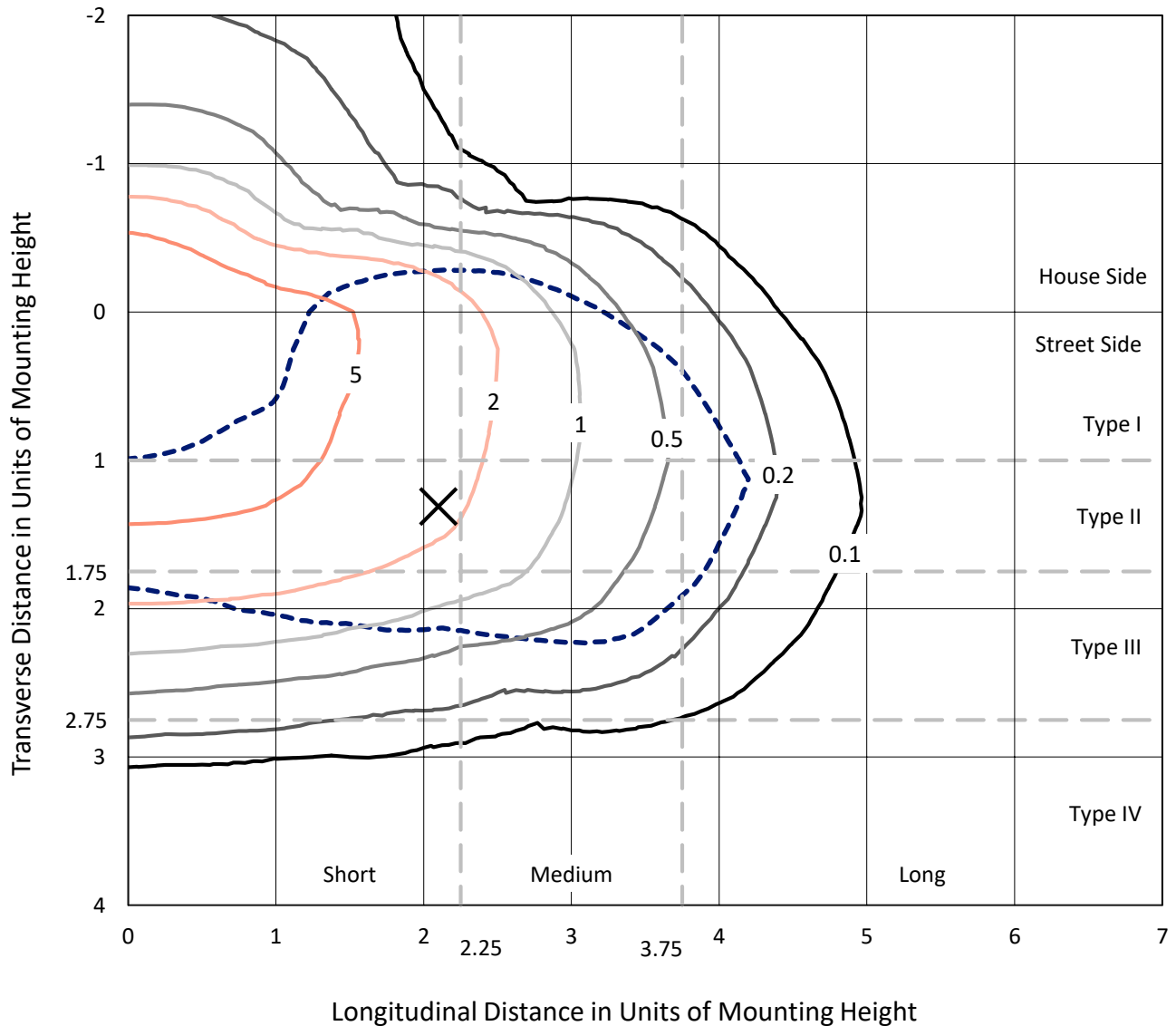
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

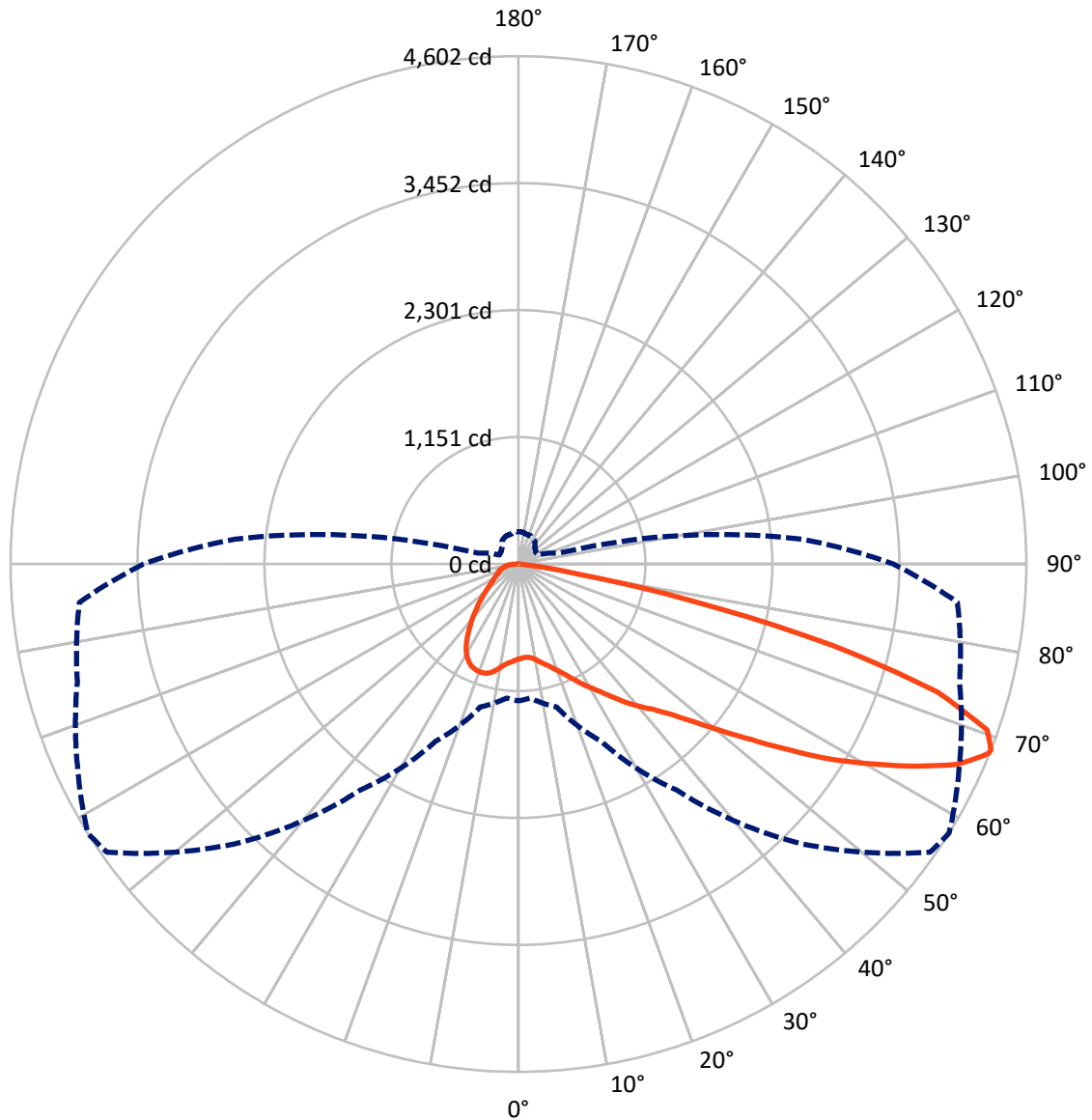
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.9	0.0	1676.9
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	5485.1	0.0	5485.1
	% Fixture	76.6	0.0	76.6
Total	Lumens	7162.0	0.0	7162.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.2
10°-20°	277.1	3.9
20°-30°	498.3	7.0
30°-40°	732.0	10.2
40°-50°	1073.5	15.0
50°-60°	1604.7	22.4
60°-70°	1876.4	26.2
70°-80°	925.1	12.9
80°-90°	90.3	1.3
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°	7162.0	100.0
0°-180°	7162.0	100.0



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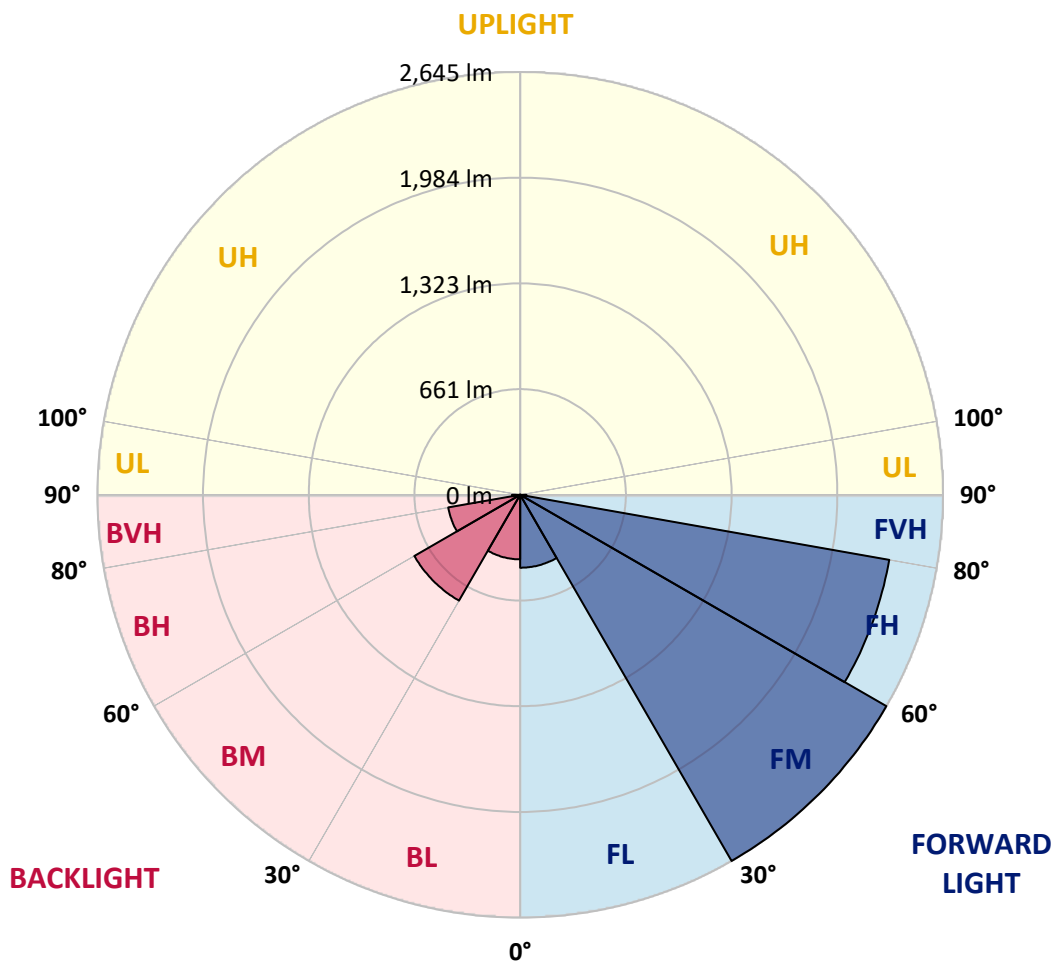
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	456.3	6.4			
FM	(30°-60°)	2645.4	36.9			
FH	(60°-80°)	2344.6	32.7			G2/5000
FVH	(80°-90°)	38.9	0.5			G1/100
BL	(0°-30°)	403.8	5.6	B1/500		
BM	(30°-60°)	764.8	10.7	B1/1000		
BH	(60°-80°)	456.9	6.4	B1/500		G1/500
BVH	(80°-90°)	51.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1
2.5°	839.1	839.1	842.1	843.1	845.1	847.1	849.1	850.1	853.1	857.1	859.1
5°	832.1	833.1	835.1	836.1	839.1	843.1	846.1	848.1	853.1	861.1	866.1
7.5°	848.1	851.1	852.1	853.1	854.1	857.1	857.1	858.1	863.1	871.1	878.1
10°	874.1	876.1	879.1	882.1	885.1	887.1	881.1	882.1	884.1	892.1	902.1
12.5°	907.1	907.1	908.1	912.1	915.1	921.1	915.1	915.1	915.1	922.1	934.1
15°	944.1	942.1	942.1	946.1	947.1	951.1	948.1	948.1	952.1	959.1	971.1
17.5°	986.1	989.1	986.1	984.1	981.1	983.1	985.1	987.1	995.1	1006.1	1013.1
20°	1047.1	1052.1	1050.1	1042.1	1029.1	1023.1	1030.1	1034.1	1050.1	1063.1	1064.1
22.5°	1144.1	1141.1	1138.1	1124.1	1098.1	1082.1	1083.1	1089.1	1114.1	1134.1	1124.1
25°	1234.1	1237.1	1237.1	1217.1	1183.1	1150.1	1153.1	1156.1	1181.1	1199.1	1172.1
27.5°	1343.1	1341.1	1340.1	1313.1	1272.1	1240.1	1223.1	1231.1	1249.1	1256.1	1204.1
30°	1456.1	1464.1	1456.1	1418.1	1379.1	1338.1	1304.1	1302.1	1311.1	1310.1	1242.1
32.5°	1592.1	1585.1	1582.1	1538.1	1489.1	1435.1	1392.1	1385.1	1380.1	1373.1	1287.1
35°	1697.1	1706.1	1706.1	1668.1	1610.1	1557.1	1490.1	1484.1	1472.1	1449.1	1346.1
37.5°	1821.1	1819.1	1826.1	1782.1	1724.1	1673.1	1611.1	1594.1	1567.1	1533.1	1416.1
40°	1942.1	1947.1	1963.1	1910.1	1857.1	1817.1	1729.1	1698.1	1657.1	1626.1	1518.1
42.5°	2107.1	2114.1	2120.1	2076.1	2013.1	1977.1	1841.1	1802.1	1779.1	1773.1	1653.1
45°	2307.2	2319.2	2324.2	2284.2	2248.2	2162.1	1982.1	1946.1	1921.1	1947.1	1837.1
47.5°	2499.2	2493.2	2516.2	2515.2	2519.2	2416.2	2185.2	2131.1	2107.1	2173.1	2048.1
50°	2607.2	2616.2	2666.2	2717.2	2788.2	2714.2	2420.2	2366.2	2338.2	2420.2	2296.2
52.5°	2663.2	2675.2	2742.2	2885.2	3036.2	3001.2	2703.2	2643.2	2619.2	2699.2	2562.2
55°	2668.2	2675.2	2765.2	2987.2	3225.2	3236.2	3026.2	2969.2	2936.2	2988.2	2852.2
57.5°	2585.2	2564.2	2719.2	3002.2	3346.2	3481.2	3381.2	3340.2	3247.2	3303.2	3212.2
60°	2437.2	2458.2	2610.2	2940.2	3397.2	3672.3	3737.3	3675.3	3567.2	3590.2	3600.2
62.5°	2213.2	2240.2	2398.2	2796.2	3356.2	3834.3	4066.3	4035.3	3890.3	3878.3	3896.3
65°	1894.1	1878.1	2054.1	2481.2	3162.2	3888.3	4389.3	4376.3	4203.3	4062.3	4069.3
67.5°	1366.1	1351.1	1474.1	1915.1	2637.2	3687.3	4561.3	4590.3	4392.3	4143.3	4035.3
68°	1240.1	1219.1	1342.1	1770.1	2502.2	3571.2	4552.3	4602.3	4406.3	4138.3	3993.3
70°	714.0	680.0	799.1	1155.1	1842.1	3006.2	4368.3	4506.3	4373.3	4041.3	3718.3
72.5°	224.0	224.0	309.0	467.0	904.1	1902.1	3737.3	3972.3	4000.3	3673.3	3090.2
75°	140.0	140.0	161.0	221.0	360.0	807.1	2578.2	2936.2	3178.2	3092.2	2253.2
77.5°	95.0	93.0	107.0	137.0	201.0	259.0	1294.1	1590.1	1944.1	2111.1	1318.1
80°	52.0	53.0	66.0	82.0	114.0	120.0	380.0	537.0	856.1	1003.1	500.0
82.5°	30.0	29.0	32.0	36.0	50.0	52.0	109.0	134.0	224.0	208.0	134.0
85°	0.0	1.0	1.0	1.0	2.0	5.0	14.0	21.0	34.0	47.0	33.0
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	2.0	2.0	3.0
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°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1
2.5°	861.1	864.1	869.1	873.1	875.1	873.1	880.1	879.1	881.1	881.1	883.1
5°	870.1	874.1	883.1	888.1	893.1	895.1	903.1	905.1	909.1	911.1	910.1
7.5°	883.1	888.1	899.1	908.1	915.1	920.1	933.1	939.1	945.1	947.1	949.1
10°	907.1	914.1	926.1	937.1	947.1	954.1	965.1	973.1	979.1	981.1	983.1
12.5°	939.1	947.1	962.1	977.1	988.1	992.1	991.1	989.1	989.1	988.1	989.1
15°	976.1	984.1	1003.1	1017.1	1018.1	1005.1	987.1	978.1	976.1	976.1	977.1
17.5°	1019.1	1029.1	1041.1	1049.1	1030.1	998.1	977.1	968.1	966.1	965.1	963.1
20°	1068.1	1074.1	1078.1	1068.1	1026.1	989.1	965.1	952.1	942.1	941.1	937.1
22.5°	1120.1	1118.1	1113.1	1077.1	1015.1	968.1	935.1	911.1	898.1	897.1	893.1
25°	1158.1	1150.1	1135.1	1079.1	995.1	934.1	887.1	849.1	832.1	824.1	826.1
27.5°	1183.1	1166.1	1140.1	1069.1	960.1	882.1	816.1	766.1	741.1	737.1	740.1
30°	1213.1	1186.1	1144.1	1044.1	910.1	809.1	723.0	673.0	659.0	652.0	654.0
32.5°	1249.1	1214.1	1157.1	1006.1	847.1	724.0	631.0	596.0	580.0	567.0	571.0
35°	1296.1	1252.1	1178.1	952.1	767.1	634.0	565.0	533.0	504.0	490.0	491.0
37.5°	1351.1	1301.1	1196.1	889.1	680.0	566.0	508.0	470.0	434.0	407.0	402.0
40°	1439.1	1398.1	1211.1	819.1	597.0	510.0	452.0	409.0	375.0	348.0	345.0
42.5°	1586.1	1515.1	1212.1	735.1	526.0	462.0	406.0	359.0	321.0	298.0	297.0
45°	1759.1	1649.1	1191.1	645.0	464.0	414.0	365.0	312.0	290.0	275.0	273.0
47.5°	1964.1	1803.1	1145.1	561.0	411.0	367.0	323.0	291.0	275.0	264.0	264.0
50°	2198.2	1984.1	1099.1	489.0	360.0	329.0	299.0	282.0	270.0	260.0	259.0
52.5°	2462.2	2198.2	1084.1	416.0	318.0	294.0	291.0	275.0	265.0	258.0	256.0
55°	2777.2	2438.2	1098.1	359.0	285.0	280.0	286.0	273.0	266.0	255.0	252.0
57.5°	3141.2	2672.2	1083.1	311.0	262.0	267.0	280.0	273.0	267.0	253.0	249.0
60°	3484.2	2881.2	981.1	271.0	240.0	251.0	272.0	264.0	255.0	252.0	250.0
62.5°	3668.3	2949.2	782.1	240.0	223.0	235.0	259.0	249.0	243.0	250.0	251.0
65°	3670.3	2872.2	575.0	217.0	209.0	221.0	246.0	243.0	247.0	263.0	266.0
67.5°	3466.2	2638.2	406.0	196.0	195.0	210.0	252.0	272.0	275.0	291.0	291.0
68°	3396.2	2580.2	377.0	193.0	192.0	210.0	257.0	277.0	279.0	294.0	293.0
70°	3012.2	2181.2	273.0	181.0	187.0	225.0	284.0	291.0	279.0	296.0	295.0
72.5°	2354.2	1613.1	204.0	168.0	178.0	222.0	286.0	279.0	261.0	265.0	260.0
75°	1591.1	1028.1	168.0	154.0	158.0	188.0	260.0	263.0	242.0	238.0	232.0
77.5°	833.1	482.0	136.0	137.0	141.0	163.0	232.0	239.0	220.0	208.0	206.0
80°	307.0	191.0	111.0	121.0	123.0	143.0	199.0	210.0	192.0	183.0	181.0
82.5°	112.0	95.0	92.0	106.0	104.0	122.0	174.0	182.0	163.0	154.0	149.0
85°	31.0	35.0	58.0	83.0	81.0	95.0	140.0	147.0	131.0	108.0	105.0
87.5°	2.0	7.0	23.0	49.0	51.0	59.0	101.0	111.0	97.0	80.0	79.0
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)