

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: P401838

Luminaire Tested: **ENT-SA1F-735-U-T2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1F-735-U-T2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7279 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

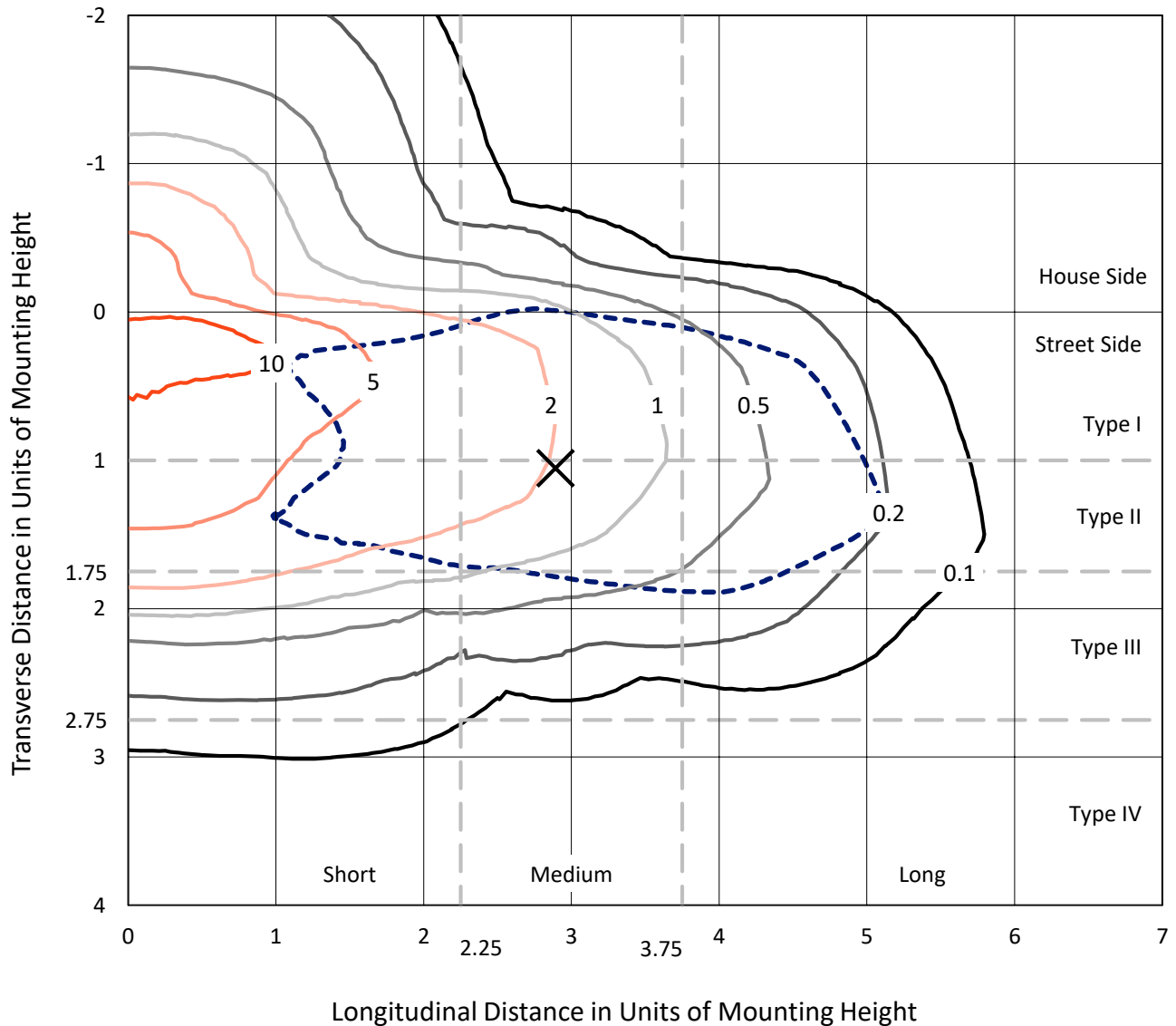
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

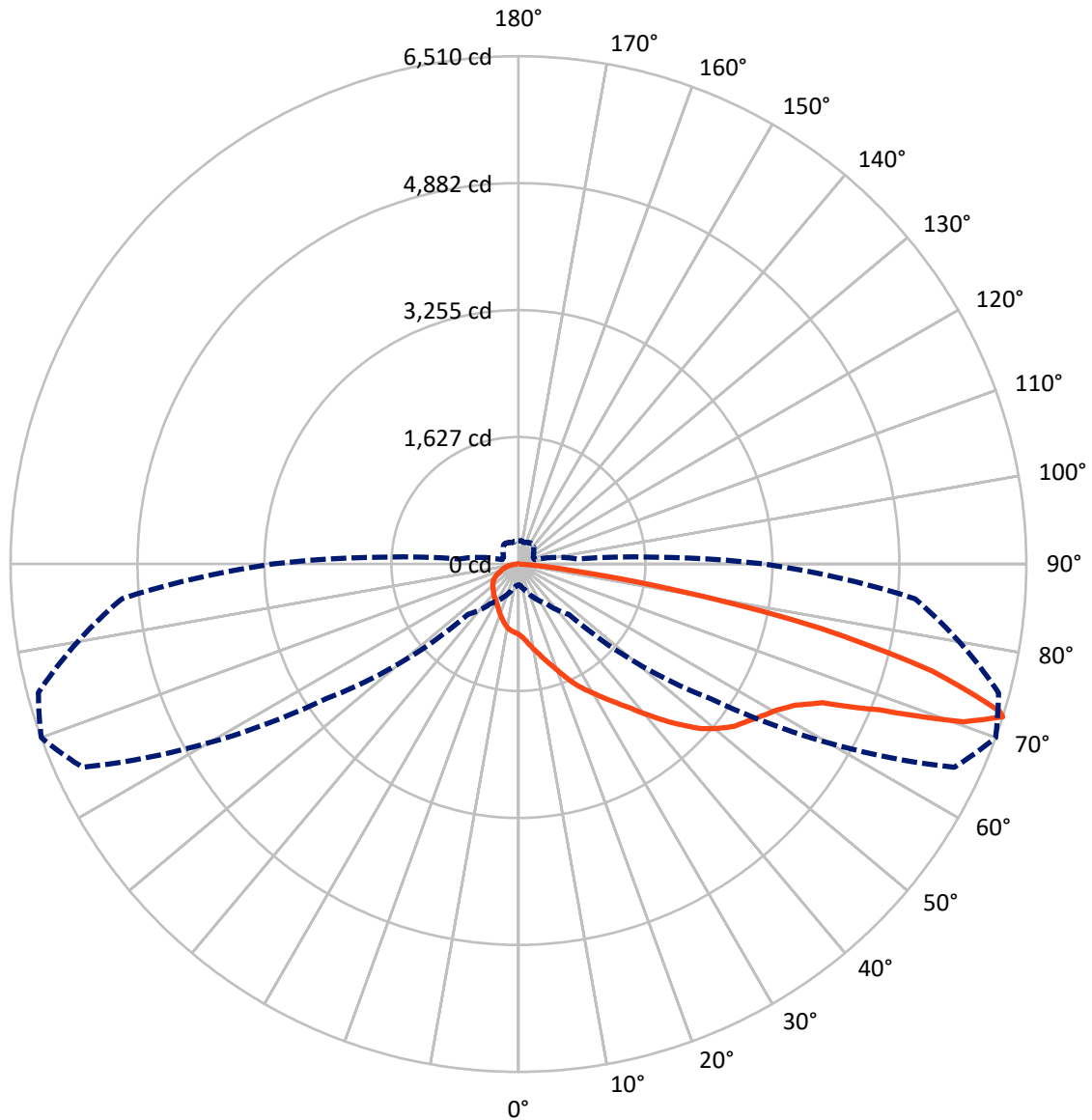
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1352.5	0.0	1352.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5926.5	0.0	5926.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	7279.0	0.0	7279.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.2
10°-20°	290.7	4.0
20°-30°	514.8	7.1
30°-40°	765.3	10.5
40°-50°	1110.3	15.3
50°-60°	1516.9	20.8
60°-70°	1660.8	22.8
70°-80°	1181.3	16.2
80°-90°	148.3	2.0
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°	7279.0	100.0
0°-180°	7279.0	100.0



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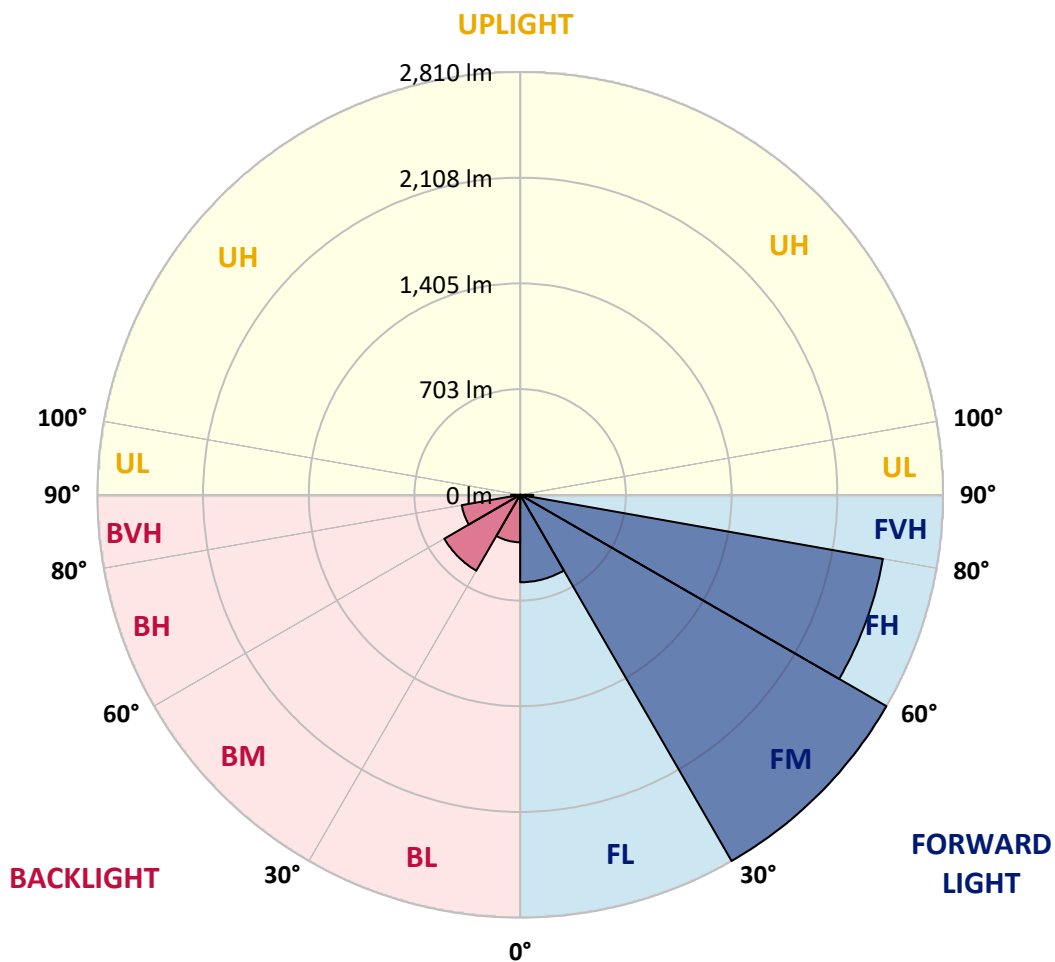
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.0	8.0			
FM	(30°-60°)	2810.2	38.6			
FH	(60°-80°)	2447.7	33.6			G2/5000
FVH	(80°-90°)	87.6	1.2			G1/100
BL	(0°-30°)	315.2	4.3	B1/500		
BM	(30°-60°)	582.3	8.0	B1/1000		
BH	(60°-80°)	394.3	5.4	B1/500		G1/500
BVH	(80°-90°)	60.7	0.8			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	1002.3	997.1	998.1	988.8	983.6	971.1	957.6	943.0	935.8	930.6	912.9
5°	1100.0	1100.0	1104.2	1096.9	1077.2	1056.4	1032.5	1000.2	986.7	968.0	932.6
7.5°	1181.1	1183.2	1183.2	1181.1	1163.5	1140.6	1109.4	1069.9	1048.1	1021.0	965.9
10°	1222.7	1227.9	1232.1	1235.2	1233.1	1219.6	1184.3	1143.7	1113.6	1078.2	1004.4
12.5°	1243.5	1245.6	1252.9	1268.5	1281.0	1291.4	1265.4	1217.5	1187.4	1144.8	1046.0
15°	1266.4	1266.4	1273.7	1293.4	1317.3	1345.4	1342.3	1304.9	1272.6	1219.6	1099.0
17.5°	1281.0	1285.1	1298.6	1319.4	1352.7	1399.5	1423.4	1402.6	1361.0	1304.9	1156.2
20°	1272.6	1275.8	1302.8	1343.3	1386.0	1446.3	1506.6	1506.6	1467.1	1402.6	1219.6
22.5°	1288.2	1293.4	1312.1	1350.6	1408.8	1486.8	1585.6	1619.9	1585.6	1514.9	1293.4
25°	1348.5	1346.5	1362.1	1377.7	1427.6	1524.3	1653.2	1741.6	1710.4	1632.4	1365.2
27.5°	1435.9	1435.9	1444.2	1443.2	1460.8	1555.4	1712.4	1848.7	1822.7	1729.1	1424.4
30°	1536.7	1538.8	1536.7	1535.7	1532.6	1598.1	1765.5	1944.3	1930.8	1838.3	1478.5
32.5°	1659.4	1664.6	1656.3	1635.5	1623.0	1659.4	1810.2	2051.4	2055.6	1946.4	1531.5
35°	1813.3	1821.6	1790.4	1760.3	1729.1	1745.7	1862.2	2152.3	2193.8	2069.1	1596.0
37.5°	1967.2	1980.7	1975.5	1894.4	1850.7	1849.7	1939.1	2278.1	2347.7	2229.2	1687.5
40°	2097.1	2108.6	2114.8	2041.0	1980.7	1978.6	2052.4	2409.1	2537.0	2413.2	1795.6
42.5°	2183.4	2193.8	2212.6	2168.9	2112.7	2138.7	2177.2	2539.0	2740.7	2637.8	1928.7
45°	2277.0	2285.3	2296.8	2271.8	2242.7	2317.6	2335.2	2683.6	2944.5	2879.0	2084.7
47.5°	2376.8	2385.2	2391.4	2372.7	2362.3	2467.3	2490.2	2831.2	3150.4	3128.6	2236.5
50°	2487.1	2490.2	2496.4	2487.1	2490.2	2603.5	2618.1	2961.2	3313.6	3388.5	2394.5
52.5°	2676.3	2680.4	2682.5	2637.8	2622.2	2689.8	2721.0	3099.5	3457.1	3604.8	2533.8
55°	2826.0	2840.6	2906.1	2877.0	2839.5	2751.1	2806.3	3210.7	3559.0	3806.5	2679.4
57.5°	2703.3	2736.6	2899.8	3037.1	3142.1	2931.0	2907.1	3325.1	3676.5	3980.1	2848.9
60°	2346.7	2395.6	2632.6	2918.5	3258.5	3343.8	3114.0	3467.5	3804.4	4161.0	3030.8
62.5°	1627.2	1677.1	2004.6	2461.1	3062.0	3579.8	3680.7	3720.2	3982.2	4346.1	3267.9
65°	779.8	830.8	1101.1	1582.5	2418.4	3428.0	4340.9	4244.2	4281.6	4581.1	3617.2
67.5°	496.0	523.0	629.0	861.9	1406.8	2670.0	4578.0	5288.1	4990.7	5122.8	4312.8
70°	362.9	369.1	460.6	596.8	834.9	1559.6	4042.5	6287.3	6054.4	6039.8	5151.9
72°	268.3	278.6	349.4	476.2	617.6	911.8	3008.0	6165.6	6509.8	6371.5	5102.0
72.5°	252.7	261.0	322.3	450.2	583.3	800.6	2695.0	6024.2	6453.6	6380.9	5006.3
75°	184.0	190.3	220.4	320.2	451.2	463.7	1439.0	4623.7	5480.5	6091.8	4538.5
77.5°	126.8	131.0	146.6	196.5	308.8	314.0	610.3	3156.6	3955.2	4871.2	3490.4
80°	76.9	79.0	88.4	107.1	196.5	186.1	251.6	1650.1	2063.9	2648.2	1618.9
82.5°	32.2	33.3	38.5	42.6	83.2	88.4	101.9	538.6	683.1	827.6	466.8
85°	0.0	0.0	1.0	1.0	2.1	9.4	14.6	66.5	100.9	120.6	84.2
87.5°	0.0	0.0	1.0	1.0	1.0	2.1	2.1	3.1	4.2	4.2	6.2
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°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	904.6	900.4	887.9	877.5	869.2	855.7	854.7	844.3	844.3	841.1	839.1
5°	919.1	905.6	880.7	857.8	841.1	821.4	812.0	800.6	793.3	789.2	790.2
7.5°	937.8	915.0	872.3	833.9	802.7	777.7	763.2	753.8	748.6	746.5	746.5
10°	963.8	928.5	858.8	800.6	761.1	742.4	735.1	734.1	735.1	736.1	737.2
12.5°	992.9	937.8	833.9	761.1	729.9	722.6	726.8	736.1	744.5	747.6	747.6
15°	1023.1	944.1	799.6	724.7	706.0	713.3	727.8	745.5	759.0	767.3	769.4
17.5°	1054.3	945.1	763.2	691.4	685.2	703.9	729.9	758.0	779.8	793.3	795.4
20°	1087.6	943.0	720.5	661.3	664.4	695.6	732.0	770.4	799.6	817.2	819.3
22.5°	1124.0	934.7	678.9	632.2	646.7	687.3	729.9	774.6	805.8	826.6	830.8
25°	1159.3	918.1	637.4	606.2	634.2	678.9	719.5	758.0	788.1	807.9	813.1
27.5°	1178.0	882.7	597.8	586.4	624.9	666.5	695.6	721.6	738.2	750.7	755.9
30°	1181.1	832.8	565.6	572.9	614.5	648.8	665.4	669.6	666.5	670.6	665.4
32.5°	1174.9	778.8	539.6	562.5	597.8	623.8	628.0	615.5	596.8	570.8	571.9
35°	1170.7	719.5	518.8	547.9	576.0	592.7	585.4	565.6	530.3	499.1	497.0
37.5°	1178.0	665.4	501.2	529.2	547.9	555.2	544.8	518.8	487.6	460.6	457.5
40°	1198.8	625.9	484.5	508.4	517.8	523.0	510.5	487.6	475.2	455.4	452.3
42.5°	1239.4	598.9	468.9	485.6	489.7	494.9	482.4	466.8	478.3	474.1	474.1
45°	1295.5	586.4	455.4	463.7	467.9	476.2	468.9	455.4	467.9	444.0	439.8
47.5°	1368.3	590.6	446.0	441.9	454.4	468.9	460.6	444.0	439.8	397.2	389.9
50°	1445.2	612.4	436.7	424.2	439.8	459.6	449.2	423.2	398.2	376.4	372.2
52.5°	1535.7	648.8	428.4	404.5	423.2	449.2	441.9	413.8	387.8	372.2	369.1
55°	1635.5	684.1	418.0	381.6	401.3	446.0	444.0	407.6	373.3	366.0	363.9
57.5°	1747.8	713.3	405.5	355.6	379.5	436.7	434.6	393.0	369.1	362.9	361.8
60°	1888.2	747.6	383.7	325.4	357.7	419.0	416.9	385.7	359.7	354.6	352.5
62.5°	2079.5	811.0	346.2	297.4	334.8	387.8	400.3	371.2	346.2	345.2	345.2
65°	2394.5	933.7	307.8	273.5	308.8	357.7	378.5	354.6	333.8	339.0	339.0
67.5°	2990.3	1099.0	268.3	250.6	283.8	328.6	359.7	337.9	320.2	330.6	330.6
70°	3449.8	1037.7	237.1	228.7	258.9	302.6	335.8	320.2	303.6	321.3	319.2
72°	3147.3	760.0	216.3	211.1	238.1	280.7	315.0	303.6	285.9	300.5	296.3
72.5°	3021.5	690.4	210.0	205.9	231.9	276.6	310.9	299.4	280.7	295.3	289.0
75°	2635.7	582.3	183.0	180.9	205.9	248.5	283.8	277.6	258.9	267.2	261.0
77.5°	2181.4	490.8	153.9	158.0	175.7	221.5	255.8	249.5	231.9	230.8	229.8
80°	1023.1	273.5	126.8	130.0	147.6	189.2	220.4	216.3	199.6	197.6	194.4
82.5°	296.3	131.0	97.7	99.8	118.5	154.9	189.2	187.2	174.7	171.6	164.3
85°	55.1	42.6	53.0	62.4	86.3	128.9	172.6	168.4	149.7	136.2	125.8
87.5°	3.1	8.3	17.7	30.2	55.1	96.7	139.3	136.2	119.6	102.9	104.0
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)