

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: P401820

Luminaire Tested: **ENV-SA1F-730-U-T2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401820
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: ENV-SA1F-730-U-T2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7057 lumens
Efficiency: N/A
Efficacy: 106.8 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

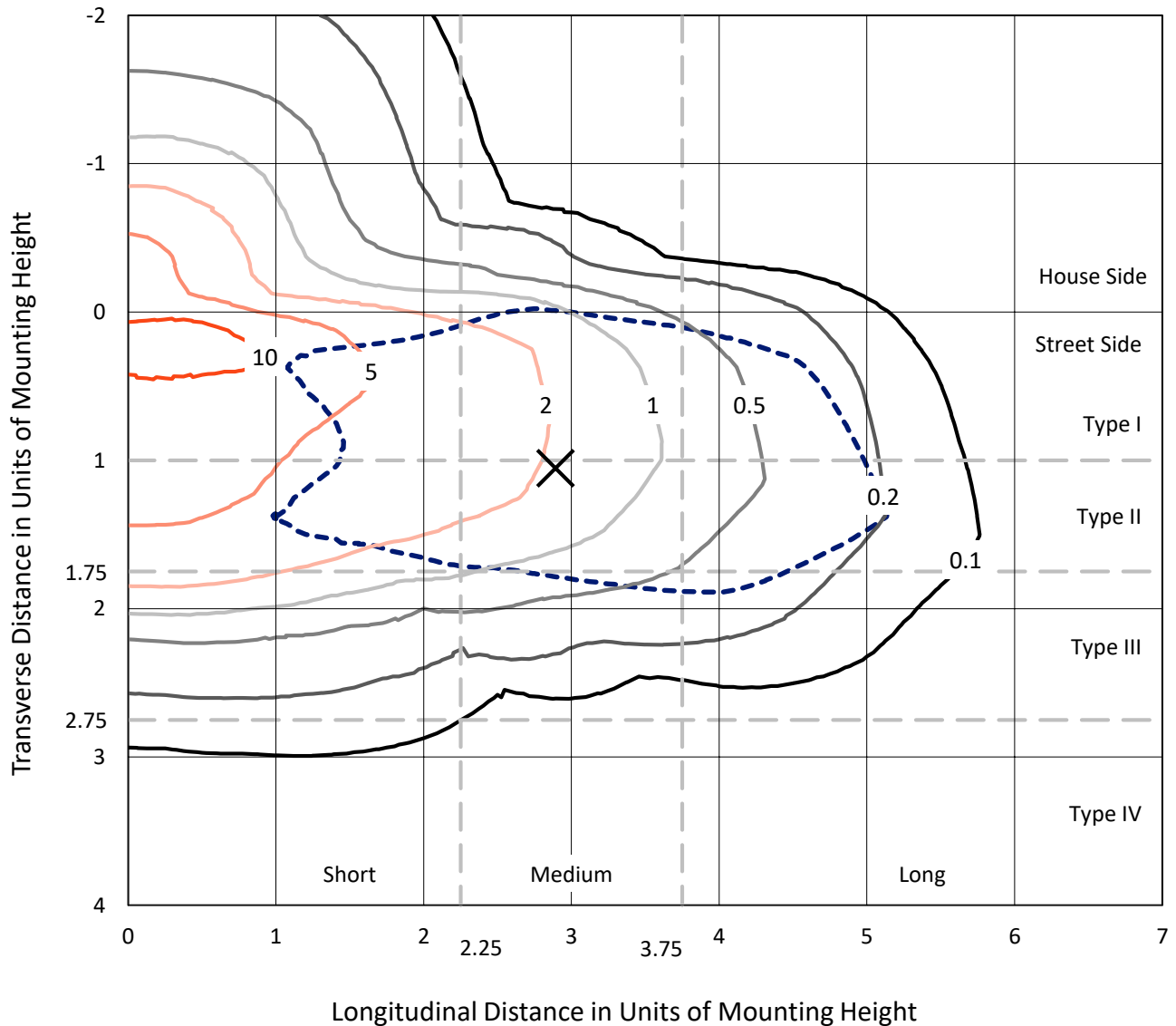
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

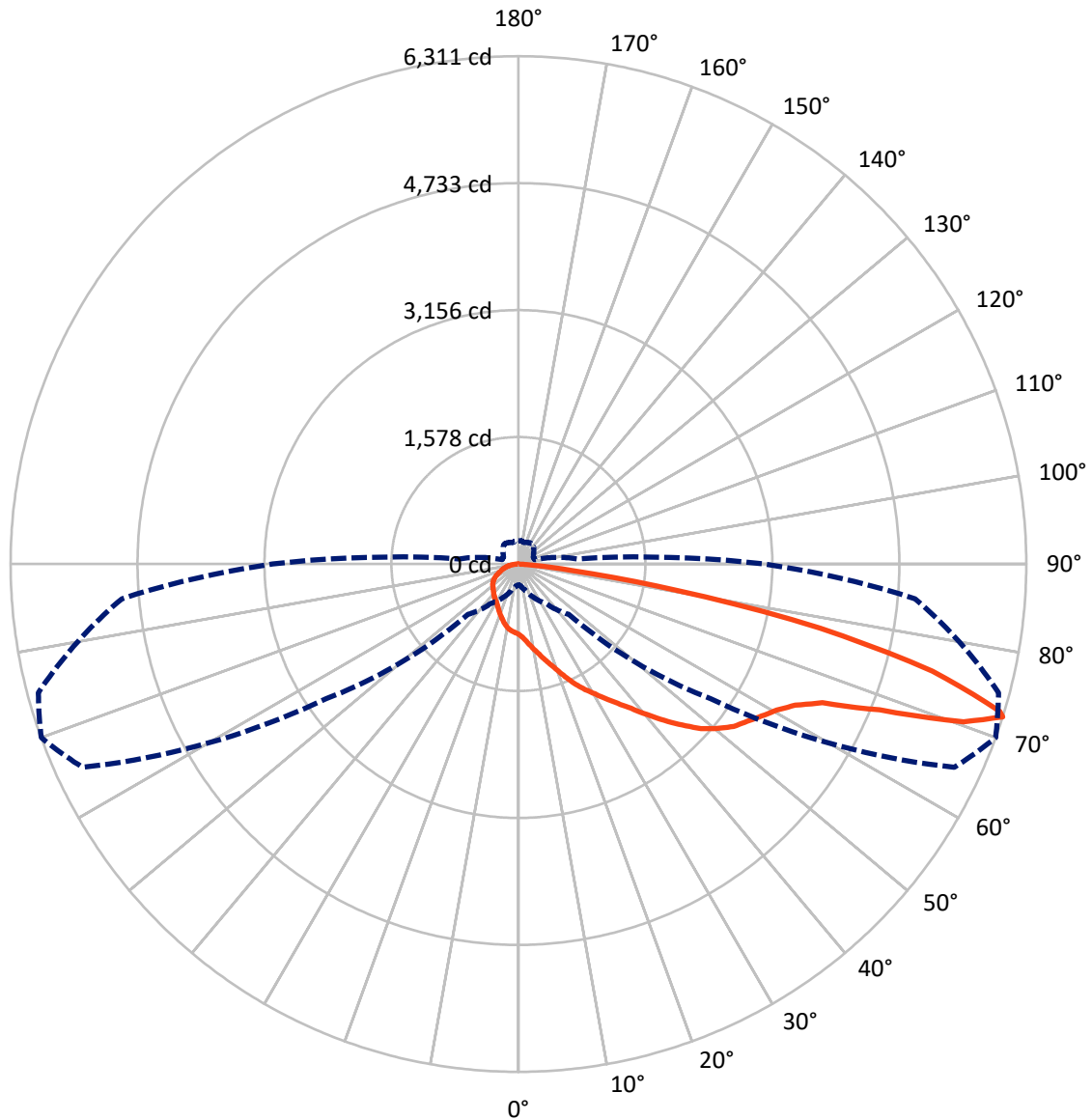
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 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	1311.3	0.0	1311.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5745.7	0.0	5745.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	7057.0	0.0	7057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.2
10°-20°	281.8	4.0
20°-30°	499.1	7.1
30°-40°	742.0	10.5
40°-50°	1076.4	15.3
50°-60°	1470.6	20.8
60°-70°	1610.1	22.8
70°-80°	1145.2	16.2
80°-90°	143.8	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°	7057.0	100.0
0°-180°	7057.0	100.0



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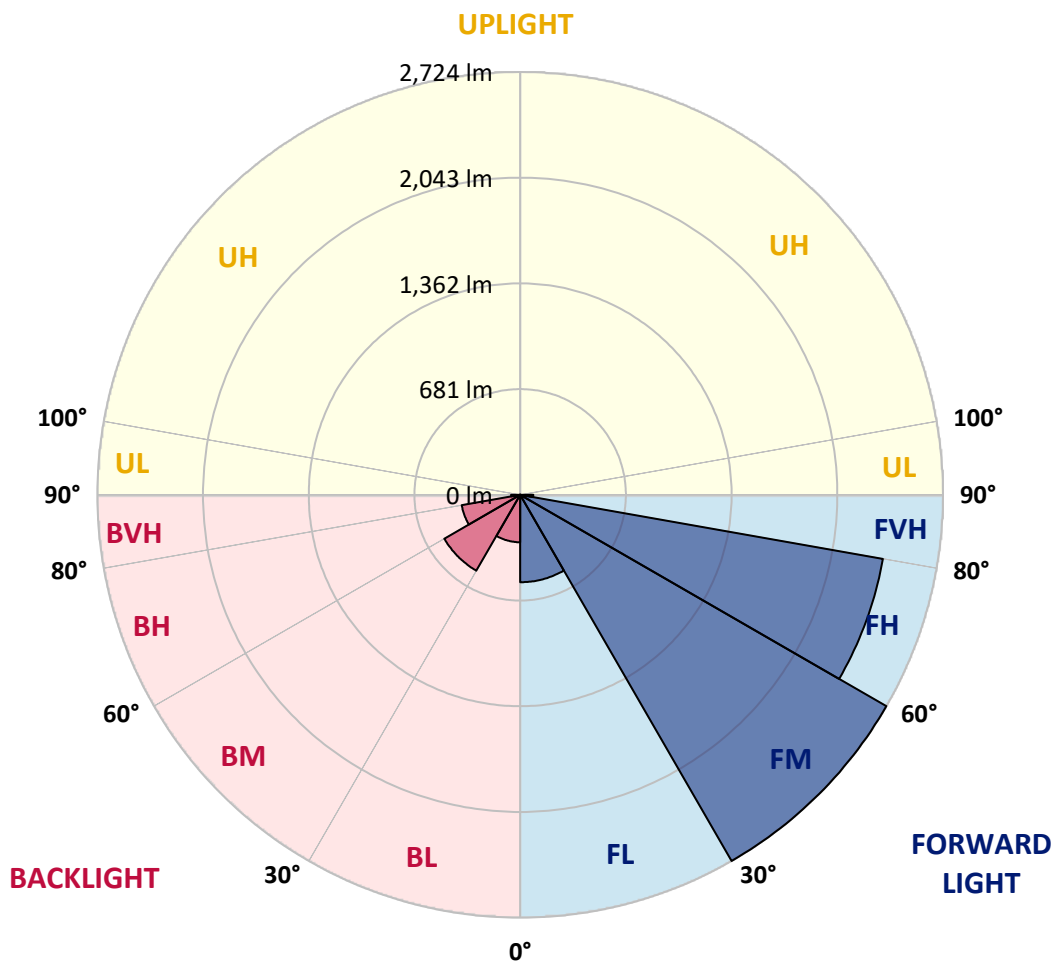
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.2	8.0			
FM	(30°-60°)	2724.4	38.6			
FH	(60°-80°)	2373.1	33.6			G2/5000
FVH	(80°-90°)	84.9	1.2			G1/100
BL	(0°-30°)	305.5	4.3	B1/500		
BM	(30°-60°)	564.6	8.0	B1/1000		
BH	(60°-80°)	382.3	5.4	B1/500		G1/500
BVH	(80°-90°)	58.9	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°	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0
2.5°	971.7	966.7	967.7	958.6	953.6	941.5	928.4	914.3	907.2	902.2	885.0
5°	1066.5	1066.5	1070.5	1063.5	1044.3	1024.2	1001.0	969.7	956.6	938.5	904.2
7.5°	1145.1	1147.1	1147.1	1145.1	1128.0	1105.8	1075.6	1037.3	1016.1	989.9	936.5
10°	1185.4	1190.5	1194.5	1197.5	1195.5	1182.4	1148.1	1108.8	1079.6	1045.3	973.8
12.5°	1205.6	1207.6	1214.7	1229.8	1241.9	1252.0	1226.8	1180.4	1151.2	1109.8	1014.1
15°	1227.8	1227.8	1234.8	1254.0	1277.2	1304.4	1301.4	1265.1	1233.8	1182.4	1065.5
17.5°	1241.9	1245.9	1259.0	1279.2	1311.4	1356.8	1380.0	1359.8	1319.5	1265.1	1120.9
20°	1233.8	1236.8	1263.1	1302.4	1343.7	1402.2	1460.6	1460.6	1422.3	1359.8	1182.4
22.5°	1248.9	1254.0	1272.1	1309.4	1365.9	1441.5	1537.2	1570.5	1537.2	1468.7	1254.0
25°	1307.4	1305.4	1320.5	1335.6	1384.0	1477.8	1602.8	1688.4	1658.2	1582.6	1323.5
27.5°	1392.1	1392.1	1400.1	1399.1	1416.3	1508.0	1660.2	1792.3	1767.1	1676.3	1381.0
30°	1489.9	1491.9	1489.9	1488.9	1485.8	1549.3	1711.6	1885.0	1871.9	1782.2	1433.4
32.5°	1608.8	1613.9	1605.8	1585.6	1573.5	1608.8	1755.0	1988.8	1992.9	1887.0	1484.8
35°	1758.0	1766.1	1735.8	1706.6	1676.3	1692.5	1805.4	2086.6	2126.9	2006.0	1547.3
37.5°	1907.2	1920.3	1915.3	1836.6	1794.3	1793.3	1880.0	2208.6	2276.1	2161.2	1636.0
40°	2033.2	2044.3	2050.3	1978.8	1920.3	1918.3	1989.8	2335.6	2459.6	2339.6	1740.9
42.5°	2116.9	2126.9	2145.1	2102.7	2048.3	2073.5	2110.8	2461.6	2657.2	2557.4	1869.9
45°	2207.6	2215.6	2226.7	2202.5	2174.3	2246.9	2264.0	2601.7	2854.7	2791.2	2021.1
47.5°	2304.3	2312.4	2318.5	2300.3	2290.2	2392.0	2414.2	2744.9	3054.3	3033.2	2168.3
50°	2411.2	2414.2	2420.3	2411.2	2414.2	2524.1	2538.2	2870.9	3212.6	3285.2	2321.5
52.5°	2594.7	2598.7	2600.7	2557.4	2542.2	2607.8	2638.0	3004.9	3351.7	3494.8	2456.6
55°	2739.8	2753.9	2817.4	2789.2	2752.9	2667.2	2720.7	3112.8	3450.5	3690.4	2597.7
57.5°	2620.9	2653.1	2811.4	2944.4	3046.3	2841.6	2818.4	3223.7	3564.4	3858.7	2762.0
60°	2275.1	2322.5	2552.3	2829.5	3159.2	3241.8	3019.0	3361.8	3688.4	4034.1	2938.4
62.5°	1577.6	1625.9	1943.5	2386.0	2968.6	3470.6	3568.4	3606.7	3860.7	4213.6	3168.2
65°	756.0	805.4	1067.5	1534.2	2344.7	3323.5	4208.5	4114.8	4151.1	4441.4	3506.9
67.5°	480.8	507.0	609.9	835.7	1363.9	2588.6	4438.3	5126.8	4838.5	4966.5	4181.3
70°	351.8	357.8	446.6	578.6	809.4	1512.0	3919.2	6095.5	5869.7	5855.6	4994.8
72°	260.1	270.2	338.7	461.7	598.8	884.0	2916.2	5977.6	6311.3	6177.2	4946.4
72.5°	245.0	253.0	312.5	436.5	565.5	776.2	2612.8	5840.5	6256.8	6186.3	4853.6
75°	178.4	184.5	213.7	310.5	437.5	449.6	1395.1	4482.7	5313.3	5906.0	4400.0
77.5°	123.0	127.0	142.1	190.5	299.4	304.4	591.7	3060.4	3834.5	4722.6	3383.9
80°	74.6	76.6	85.7	103.8	190.5	180.4	243.9	1599.7	2000.9	2567.4	1569.5
82.5°	31.2	32.3	37.3	41.3	80.6	85.7	98.8	522.2	662.3	802.4	452.6
85°	0.0	0.0	1.0	1.0	2.0	9.1	14.1	64.5	97.8	116.9	81.7
87.5°	0.0	0.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0	4.0	6.0
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°	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0	874.0
2.5°	877.0	873.0	860.9	850.8	842.7	829.6	828.6	818.5	818.5	815.5	813.5
5°	891.1	878.0	853.8	831.6	815.5	796.3	787.3	776.2	769.1	765.1	766.1
7.5°	909.2	887.1	845.7	808.4	778.2	754.0	739.9	730.8	725.8	723.8	723.8
10°	934.4	900.2	832.6	776.2	737.9	719.7	712.7	711.7	712.7	713.7	714.7
12.5°	962.7	909.2	808.4	737.9	707.6	700.6	704.6	713.7	721.7	724.8	724.8
15°	991.9	915.3	775.2	702.6	684.5	691.5	705.6	722.8	735.9	743.9	745.9
17.5°	1022.1	916.3	739.9	670.3	664.3	682.4	707.6	734.9	756.0	769.1	771.1
20°	1054.4	914.3	698.6	641.1	644.1	674.4	709.7	746.9	775.2	792.3	794.3
22.5°	1089.7	906.2	658.2	612.9	627.0	666.3	707.6	751.0	781.2	801.4	805.4
25°	1123.9	890.1	617.9	587.7	614.9	658.2	697.6	734.9	764.1	783.2	788.3
27.5°	1142.1	855.8	579.6	568.5	605.8	646.1	674.4	699.6	715.7	727.8	732.8
30°	1145.1	807.4	548.4	555.4	595.7	629.0	645.1	649.2	646.1	650.2	645.1
32.5°	1139.1	755.0	523.2	545.3	579.6	604.8	608.8	596.8	578.6	553.4	554.4
35°	1135.0	697.6	503.0	531.2	558.4	574.6	567.5	548.4	514.1	483.9	481.8
37.5°	1142.1	645.1	485.9	513.1	531.2	538.3	528.2	503.0	472.8	446.6	443.5
40°	1162.3	606.8	469.7	492.9	502.0	507.0	494.9	472.8	460.7	441.5	438.5
42.5°	1201.6	580.6	454.6	470.7	474.8	479.8	467.7	452.6	463.7	459.7	459.7
45°	1256.0	568.5	441.5	449.6	453.6	461.7	454.6	441.5	453.6	430.4	426.4
47.5°	1326.6	572.6	432.4	428.4	440.5	454.6	446.6	430.4	426.4	385.1	378.0
50°	1401.2	593.7	423.4	411.3	426.4	445.5	435.5	410.3	386.1	364.9	360.9
52.5°	1488.9	629.0	415.3	392.1	410.3	435.5	428.4	401.2	376.0	360.9	357.8
55°	1585.6	663.3	405.2	369.9	389.1	432.4	430.4	395.1	361.9	354.8	352.8
57.5°	1694.5	691.5	393.1	344.7	367.9	423.4	421.4	381.0	357.8	351.8	350.8
60°	1830.6	724.8	372.0	315.5	346.8	406.2	404.2	374.0	348.8	343.7	341.7
62.5°	2016.1	786.3	335.7	288.3	324.6	376.0	388.1	359.9	335.7	334.7	334.7
65°	2321.5	905.2	298.4	265.1	299.4	346.8	366.9	343.7	323.6	328.6	328.6
67.5°	2899.1	1065.5	260.1	242.9	275.2	318.5	348.8	327.6	310.5	320.6	320.6
70°	3344.6	1006.0	229.8	221.8	251.0	293.3	325.6	310.5	294.3	311.5	309.5
72°	3051.3	736.9	209.7	204.6	230.8	272.2	305.4	294.3	277.2	291.3	287.3
72.5°	2929.3	669.3	203.6	199.6	224.8	268.1	301.4	290.3	272.2	286.3	280.2
75°	2555.3	564.5	177.4	175.4	199.6	240.9	275.2	269.1	251.0	259.1	253.0
77.5°	2114.8	475.8	149.2	153.2	170.4	214.7	248.0	241.9	224.8	223.8	222.8
80°	991.9	265.1	123.0	126.0	143.1	183.5	213.7	209.7	193.5	191.5	188.5
82.5°	287.3	127.0	94.8	96.8	114.9	150.2	183.5	181.4	169.3	166.3	159.3
85°	53.4	41.3	51.4	60.5	83.7	125.0	167.3	163.3	145.2	132.1	122.0
87.5°	3.0	8.1	17.1	29.2	53.4	93.7	135.1	132.1	115.9	99.8	100.8
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)