

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: P401686

Luminaire Tested: **ENT-SA1E-740-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1E-740-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5323 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - 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

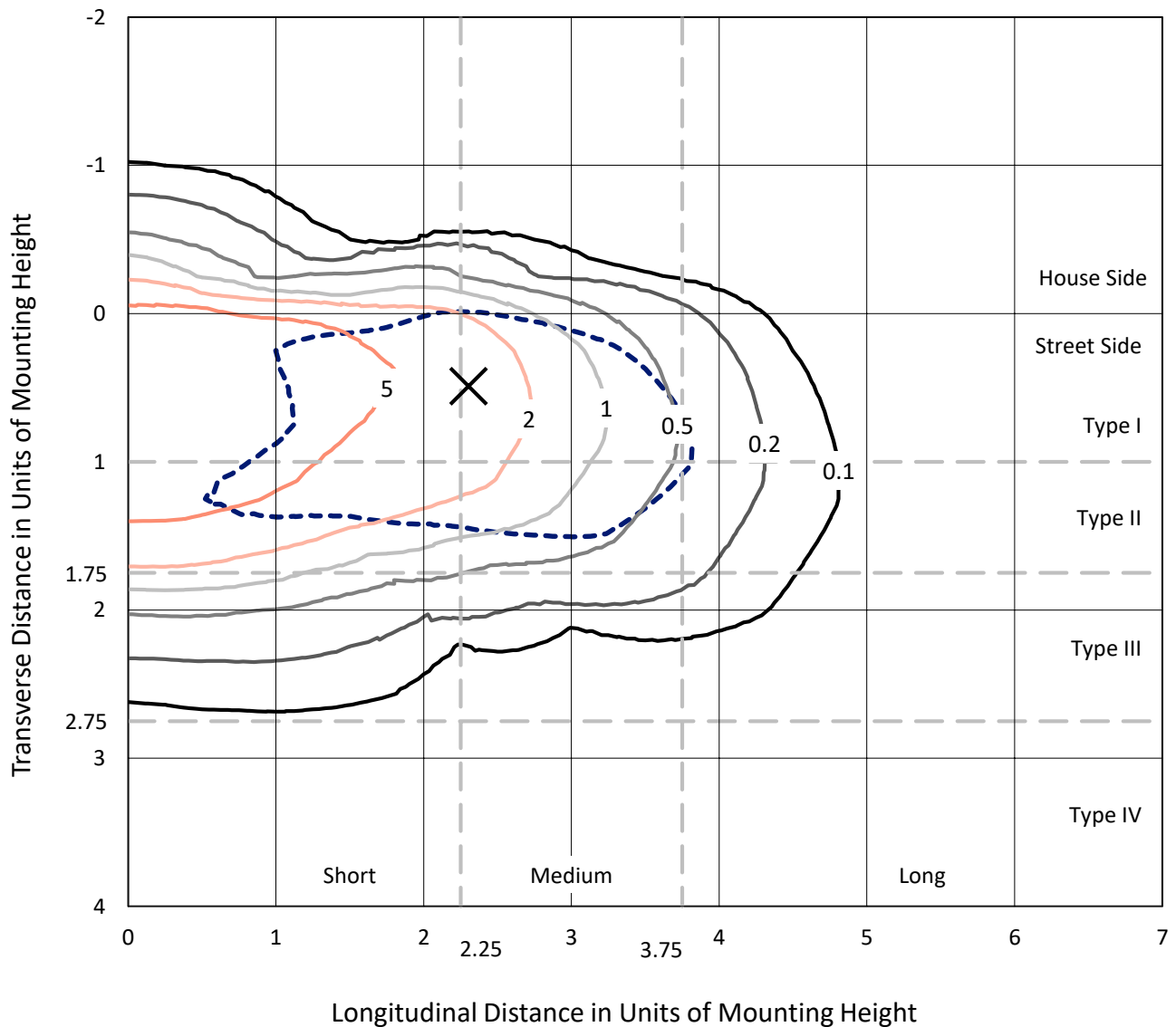


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

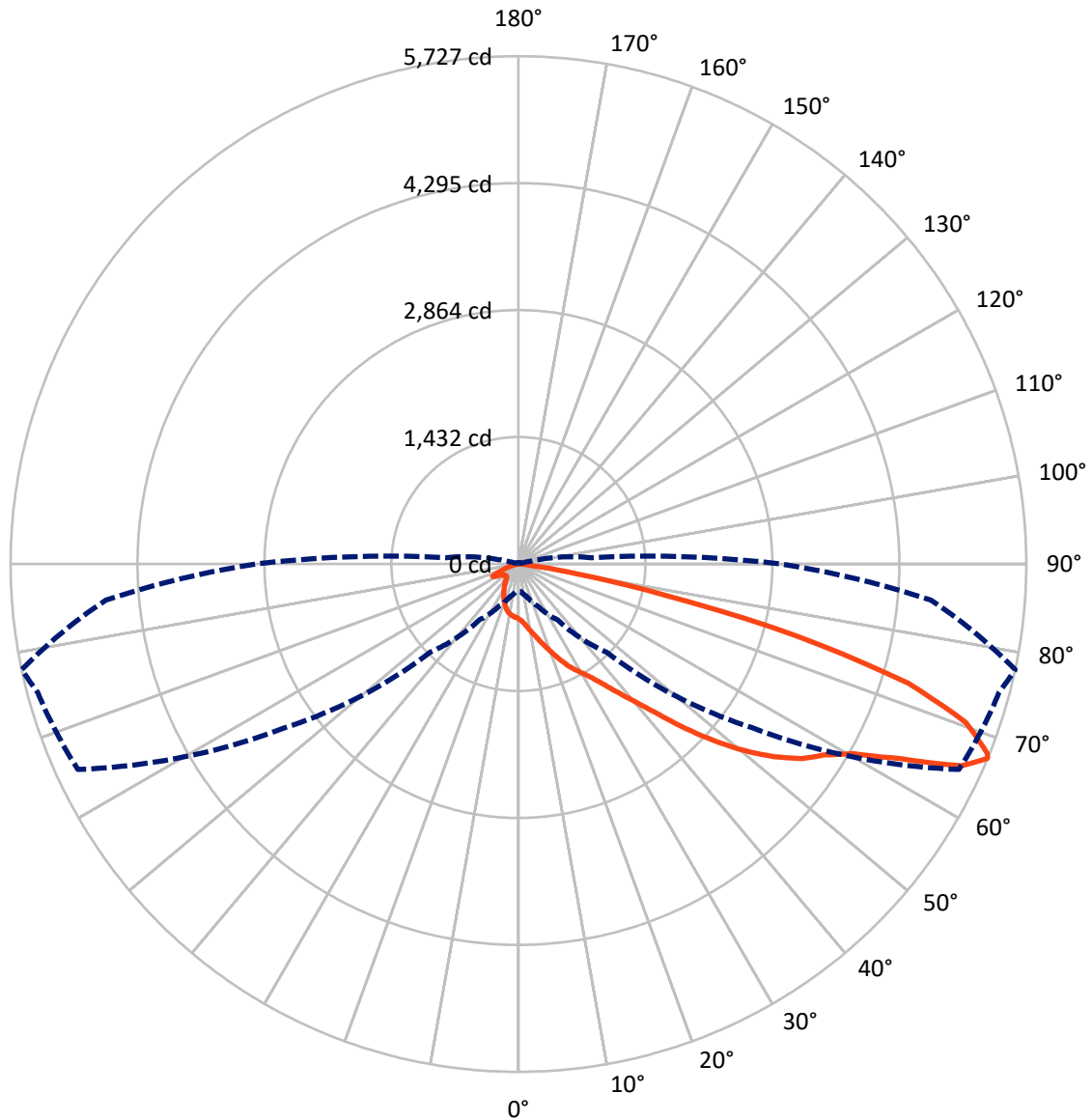


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.5	0.0	375.5
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	4947.4	0.0	4947.4
	% Fixture	92.9	0.0	92.9
Total	Lumens	5323.0	0.0	5323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.1
10°-20°	170.6	3.2
20°-30°	301.5	5.7
30°-40°	531.6	10.0
40°-50°	913.6	17.2
50°-60°	1375.2	25.8
60°-70°	1353.3	25.4
70°-80°	591.3	11.1
80°-90°	26.2	0.5
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°	5323.0	100.0
0°-180°	5323.0	100.0



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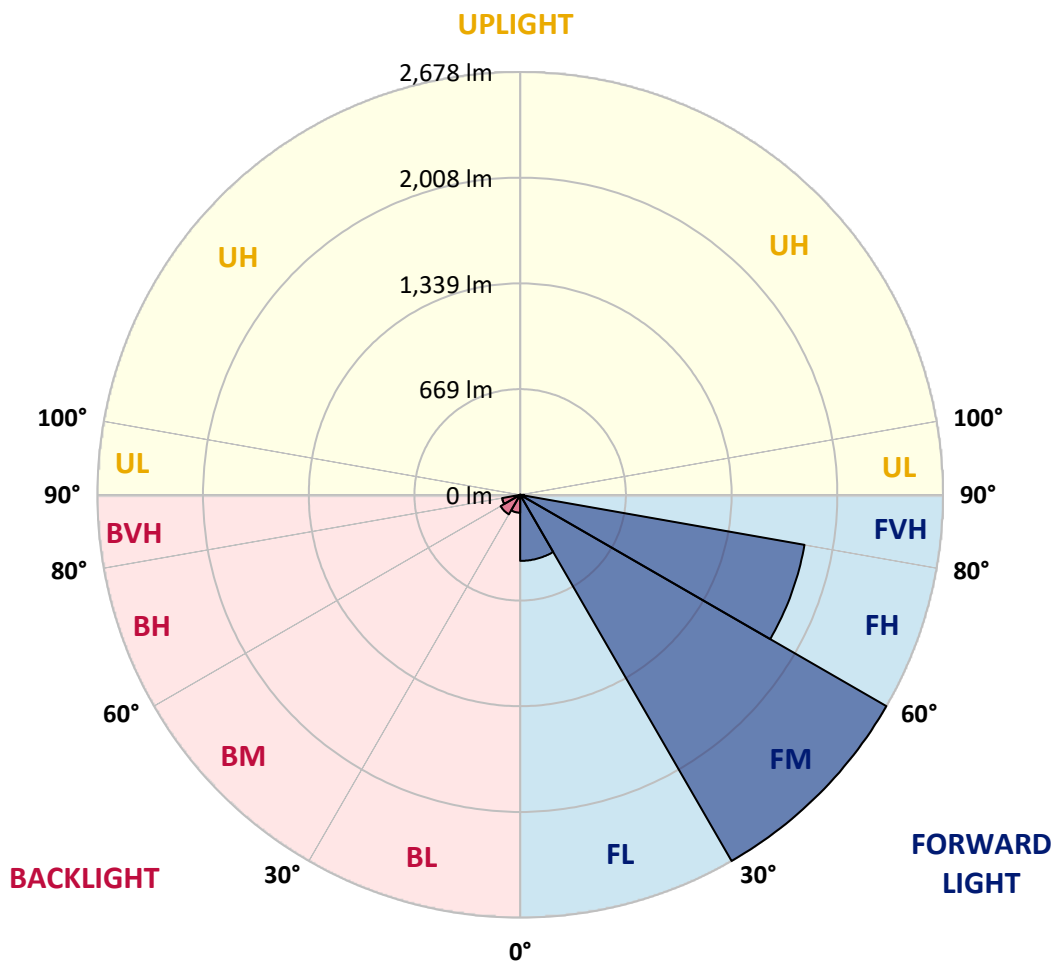
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.2	7.9			
FM	(30°-60°)	2677.5	50.3			
FH	(60°-80°)	1828.2	34.3			G2/5000
FVH	(80°-90°)	23.5	0.4			G1/100
BL	(0°-30°)	113.5	2.1	B1/500		
BM	(30°-60°)	142.9	2.7	B0/220		
BH	(60°-80°)	116.5	2.2	B1/500		G1/500
BVH	(80°-90°)	2.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
2.5°	709.0	712.0	708.0	705.0	697.0	687.0	677.0	662.0	646.0	640.0	630.0
5°	796.0	796.0	796.0	788.0	781.0	762.0	739.0	716.0	686.0	675.0	652.0
7.5°	842.0	843.0	846.0	846.0	842.0	829.0	804.0	778.0	733.0	718.0	681.0
10°	847.0	851.0	859.0	871.0	880.0	887.0	872.0	844.0	790.0	772.0	718.0
12.5°	834.0	836.0	849.0	871.0	900.0	929.0	930.0	913.0	853.0	828.0	763.0
15°	804.0	807.0	826.0	861.0	906.0	958.0	988.0	983.0	927.0	898.0	813.0
17.5°	756.0	759.0	783.0	835.0	901.0	977.0	1041.1	1066.1	1000.0	972.0	864.0
20°	754.0	755.0	764.0	803.0	881.0	988.0	1093.1	1152.1	1089.1	1059.1	924.0
22.5°	882.0	874.0	854.0	829.0	863.0	985.0	1140.1	1243.1	1199.1	1152.1	993.0
25°	1025.1	1028.1	1006.0	947.0	904.0	980.0	1176.1	1346.1	1302.1	1255.1	1064.1
27.5°	1175.1	1170.1	1151.1	1097.1	1025.1	1016.1	1202.1	1429.1	1401.1	1344.1	1127.1
30°	1321.1	1317.1	1303.1	1248.1	1170.1	1109.1	1222.1	1504.1	1495.1	1432.1	1178.1
32.5°	1488.1	1495.1	1477.1	1405.1	1310.1	1235.1	1265.1	1583.1	1609.1	1532.1	1231.1
35°	1682.1	1682.1	1645.1	1579.1	1481.1	1376.1	1351.1	1670.1	1754.1	1671.1	1315.1
37.5°	1842.1	1855.1	1833.1	1738.1	1646.1	1536.1	1482.1	1777.1	1933.1	1849.1	1428.1
40°	1968.1	1990.1	1991.1	1897.1	1812.1	1740.1	1665.1	1928.1	2158.1	2050.1	1563.1
42.5°	2085.1	2089.1	2106.1	2052.1	1967.1	1948.1	1871.1	2107.1	2439.1	2312.1	1743.1
45°	2234.1	2242.1	2232.1	2192.1	2119.1	2144.1	2101.1	2334.1	2755.1	2648.1	1955.1
47.5°	2453.1	2472.1	2457.1	2385.1	2296.1	2343.1	2312.1	2560.1	3112.2	2982.1	2185.1
50°	2658.1	2673.1	2689.1	2666.1	2577.1	2532.1	2494.1	2799.1	3418.2	3308.2	2411.1
52.5°	2680.1	2694.1	2782.1	2863.1	2922.1	2804.1	2685.1	3041.2	3701.2	3609.2	2618.1
55°	2537.1	2546.1	2693.1	2853.1	3124.2	3164.2	2966.1	3280.2	3938.2	3875.2	2757.1
57.5°	2139.1	2177.1	2386.1	2631.1	3074.2	3378.2	3365.2	3558.2	4092.2	4063.2	2936.1
60°	1405.1	1447.1	1697.1	2068.1	2706.1	3321.2	3803.2	3975.2	4308.2	4340.2	3250.2
62.5°	728.0	777.0	997.0	1326.1	1961.1	2892.1	3952.2	4660.2	4722.2	4831.2	3810.2
65°	416.0	426.0	536.0	777.0	1214.1	2071.1	3773.2	5338.3	5267.3	5488.3	4525.2
67°	309.0	309.0	386.0	528.0	769.0	1408.1	3218.2	5481.3	5610.3	5727.3	4669.2
67.5°	277.0	292.0	358.0	487.0	690.0	1249.1	3011.1	5443.3	5632.3	5705.3	4619.2
70°	190.0	200.0	257.0	349.0	465.0	650.0	1974.1	4814.2	5426.3	5352.3	4186.2
72.5°	114.0	118.0	170.0	251.0	347.0	348.0	1077.1	3654.2	4598.2	4597.2	3419.2
75°	71.0	75.0	100.0	168.0	243.0	218.0	498.0	2486.1	3302.2	3238.2	2291.1
77.5°	40.0	46.0	60.0	92.0	154.0	139.0	210.0	1393.1	1784.1	1674.1	1138.1
80°	16.0	19.0	34.0	44.0	87.0	83.0	86.0	490.0	722.0	651.0	381.0
82.5°	4.0	5.0	12.0	21.0	34.0	34.0	27.0	134.0	171.0	159.0	98.0
85°	0.0	0.0	1.0	1.0	1.0	2.0	7.0	15.0	18.0	21.0	16.0
87.5°	0.0	0.0	0.0	1.0	1.0	1.0	2.0	3.0	3.0	3.0	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°	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
2.5°	622.0	615.0	601.0	586.0	571.0	559.0	549.0	535.0	533.0	533.0	533.0
5°	635.0	619.0	587.0	555.0	523.0	494.0	473.0	456.0	441.0	436.0	440.0
7.5°	654.0	625.0	569.0	513.0	463.0	422.0	392.0	368.0	357.0	351.0	346.0
10°	679.0	634.0	545.0	463.0	400.0	351.0	319.0	296.0	285.0	278.0	279.0
12.5°	706.0	641.0	515.0	409.0	339.0	294.0	267.0	248.0	230.0	219.0	222.0
15°	733.0	646.0	478.0	359.0	292.0	252.0	214.0	180.0	168.0	166.0	165.0
17.5°	763.0	645.0	437.0	312.0	252.0	196.0	158.0	154.0	153.0	153.0	152.0
20°	794.0	640.0	390.0	273.0	212.0	149.0	143.0	141.0	138.0	137.0	136.0
22.5°	828.0	631.0	347.0	239.0	158.0	136.0	128.0	122.0	117.0	114.0	115.0
25°	859.0	614.0	305.0	207.0	135.0	122.0	111.0	102.0	97.0	93.0	94.0
27.5°	880.0	584.0	269.0	167.0	124.0	108.0	95.0	86.0	79.0	76.0	76.0
30°	882.0	541.0	237.0	137.0	113.0	95.0	81.0	71.0	67.0	65.0	64.0
32.5°	880.0	497.0	213.0	126.0	103.0	83.0	69.0	62.0	58.0	56.0	56.0
35°	890.0	452.0	191.0	116.0	92.0	73.0	61.0	54.0	51.0	49.0	49.0
37.5°	920.0	421.0	168.0	106.0	82.0	64.0	55.0	49.0	46.0	44.0	44.0
40°	961.0	395.0	140.0	96.0	72.0	58.0	50.0	45.0	41.0	39.0	39.0
42.5°	1033.1	385.0	117.0	86.0	63.0	52.0	46.0	40.0	36.0	34.0	34.0
45°	1140.1	390.0	107.0	77.0	57.0	47.0	41.0	35.0	31.0	30.0	30.0
47.5°	1258.1	411.0	100.0	69.0	52.0	44.0	37.0	31.0	27.0	26.0	26.0
50°	1390.1	444.0	94.0	61.0	47.0	40.0	33.0	27.0	24.0	23.0	23.0
52.5°	1516.1	486.0	88.0	55.0	44.0	36.0	29.0	24.0	22.0	21.0	21.0
55°	1612.1	513.0	83.0	51.0	41.0	33.0	26.0	23.0	20.0	19.0	19.0
57.5°	1746.1	558.0	77.0	46.0	37.0	30.0	24.0	21.0	18.0	18.0	18.0
60°	2018.1	679.0	68.0	42.0	33.0	27.0	23.0	19.0	17.0	16.0	16.0
62.5°	2508.1	879.0	59.0	39.0	29.0	24.0	20.0	17.0	15.0	13.0	13.0
65°	2980.1	962.0	50.0	34.0	26.0	21.0	18.0	15.0	11.0	9.0	9.0
67°	2954.1	823.0	42.0	29.0	22.0	19.0	15.0	12.0	8.0	5.0	5.0
67.5°	2884.1	766.0	41.0	28.0	21.0	18.0	15.0	11.0	7.0	4.0	4.0
70°	2451.1	536.0	32.0	22.0	18.0	16.0	12.0	8.0	4.0	2.0	2.0
72.5°	1991.1	425.0	25.0	18.0	15.0	12.0	10.0	5.0	3.0	1.0	1.0
75°	1408.1	261.0	22.0	16.0	12.0	9.0	8.0	5.0	3.0	2.0	1.0
77.5°	695.0	120.0	18.0	14.0	11.0	9.0	7.0	6.0	5.0	4.0	2.0
80°	204.0	39.0	12.0	10.0	10.0	9.0	8.0	7.0	6.0	5.0	3.0
82.5°	46.0	14.0	4.0	5.0	7.0	7.0	7.0	5.0	4.0	2.0	1.0
85°	6.0	3.0	3.0	3.0	4.0	4.0	3.0	2.0	2.0	0.0	0.0
87.5°	2.0	2.0	2.0	3.0	3.0	3.0	2.0	1.0	1.0	0.0	0.0
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)