

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: P674756

Luminaire Tested: **CCP-SA-2E-830-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674756
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-830-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

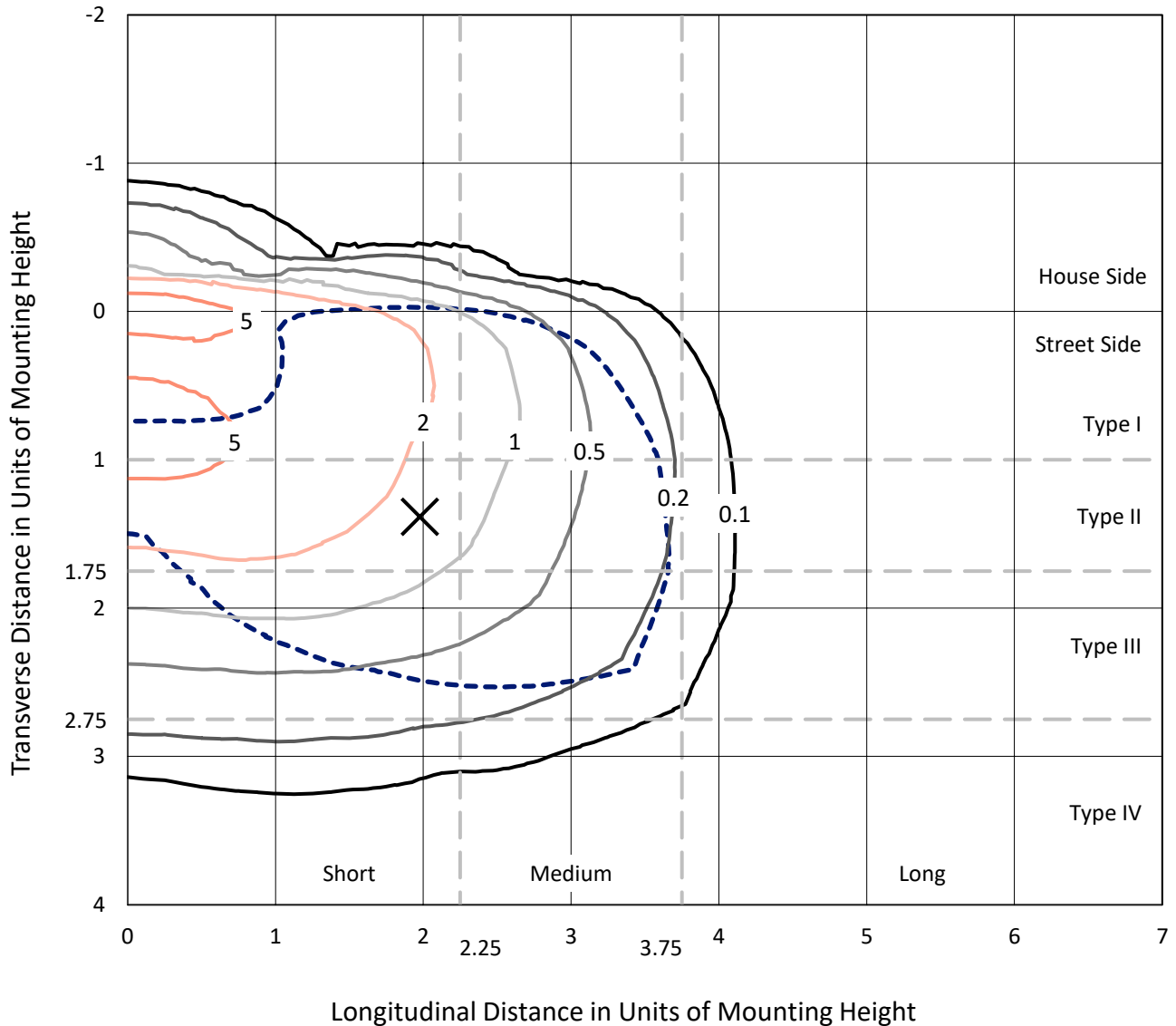
Lumens per Lamp: N/A
Luminaire Lumens: 8616.6 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
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

REPORT NUMBER: P674756
 CATALOG NUMBER: CCP-SA-2E-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

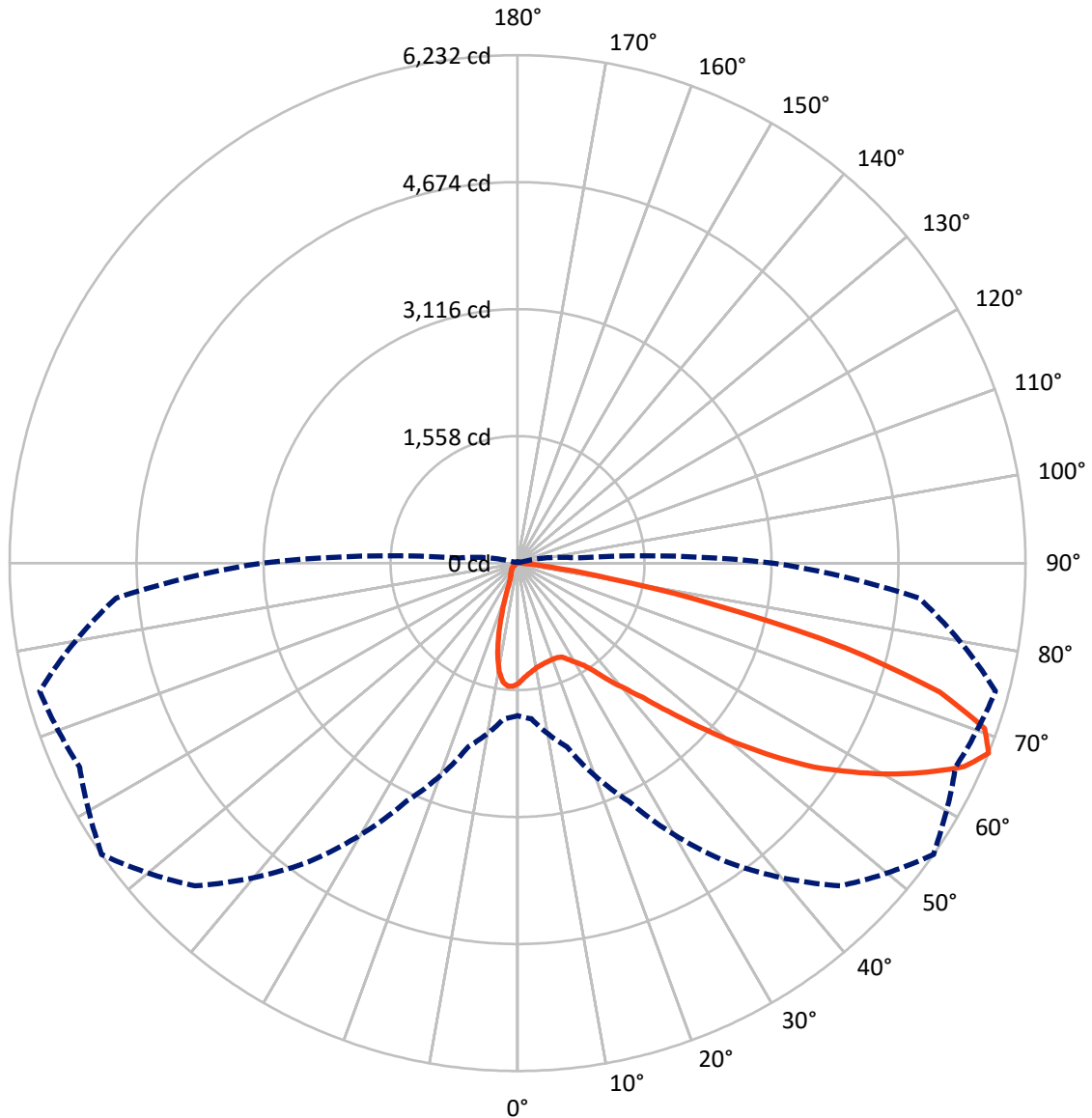
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P674756
CATALOG NUMBER: CCP-SA-2E-830-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.1	0.0	774.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	7842.6	0.0	7842.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	8616.6	0.0	8616.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.5
10°-20°	295.1	3.4
20°-30°	473.4	5.5
30°-40°	821.1	9.5
40°-50°	1369.1	15.9
50°-60°	2002.0	23.2
60°-70°	2334.3	27.1
70°-80°	1132.9	13.1
80°-90°	59.2	0.7
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°	8616.6	100.0
0°-180°	8616.6	100.0



REPORT NUMBER: P674756

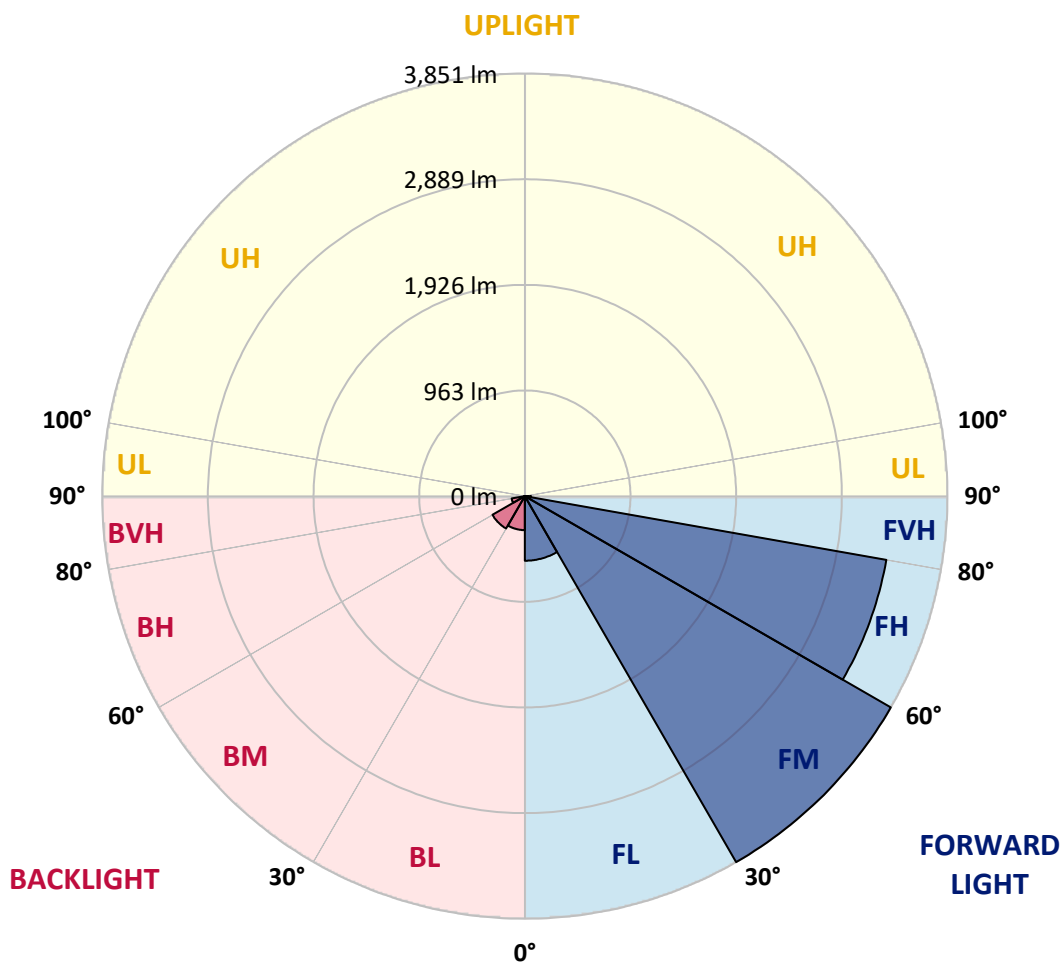
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.6	6.8			
FM (30°-60°)	3851.3	44.7			
FH (60°-80°)	3345.1	38.8			G2/5000
FVH (80°-90°)	57.5	0.7			G1/100
BL (0°-30°)	309.4	3.6	B1/500		
BM (30°-60°)	340.8	4.0	B1/1000		
BH (60°-80°)	122.1	1.4	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			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 III Short





REPORT NUMBER: P674756

CATALOG NUMBER: CCP-SA-2E-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6
2.5°	1363.1	1371.9	1383.0	1386.9	1400.4	1419.5	1413.9	1410.0	1431.4	1460.8	1470.3
5°	1278.2	1279.0	1296.4	1309.1	1332.2	1350.4	1370.3	1368.7	1407.6	1457.6	1489.3
7.5°	1194.8	1196.4	1214.7	1234.5	1267.9	1303.6	1333.7	1332.2	1394.9	1461.6	1521.9
10°	1085.3	1093.2	1115.4	1150.4	1202.8	1259.1	1301.2	1305.2	1380.6	1476.6	1566.4
12.5°	997.1	1001.1	1025.7	1071.0	1132.9	1206.7	1285.3	1282.9	1383.8	1504.4	1624.3
15°	959.8	957.4	972.5	1005.9	1076.5	1169.4	1269.4	1275.0	1394.9	1536.2	1684.6
17.5°	968.6	966.2	974.1	986.0	1036.0	1138.4	1260.7	1270.2	1412.3	1569.5	1741.0
20°	1065.4	1048.7	1034.4	1021.7	1028.9	1113.0	1255.1	1265.5	1422.7	1594.9	1800.6
22.5°	1252.0	1231.3	1193.2	1122.6	1075.7	1114.6	1256.7	1270.2	1445.7	1636.2	1872.8
25°	1556.0	1536.2	1454.4	1309.9	1186.1	1171.8	1278.2	1292.5	1498.9	1698.9	1949.8
27.5°	1958.5	1914.1	1814.8	1607.6	1368.7	1263.1	1342.5	1358.4	1574.3	1747.4	2002.2
30°	2292.8	2282.4	2187.2	1933.1	1620.3	1397.3	1414.7	1423.5	1608.4	1776.7	2054.6
32.5°	2639.7	2618.3	2530.9	2284.0	1912.5	1588.6	1495.7	1499.7	1652.9	1820.4	2130.8
35°	2941.4	2921.5	2848.5	2608.7	2253.9	1845.8	1629.9	1621.1	1745.0	1916.5	2234.0
37.5°	3220.8	3218.5	3154.1	2909.6	2560.3	2112.6	1827.5	1820.4	1888.7	2022.1	2373.7
40°	3493.9	3487.6	3432.8	3209.7	2862.0	2378.5	2015.7	1997.4	2010.9	2169.7	2557.9
42.5°	3661.4	3674.9	3694.0	3552.7	3220.0	2690.5	2253.9	2242.8	2240.4	2400.7	2800.1
45°	3751.9	3775.8	3887.7	3875.0	3599.5	3078.7	2592.9	2564.3	2554.8	2718.3	3077.1
47.5°	3840.1	3850.4	4033.8	4110.8	3963.1	3483.6	3002.5	2962.8	2923.9	3105.7	3408.2
50°	3845.6	3862.3	4089.4	4276.7	4268.0	3882.1	3462.2	3427.2	3382.8	3577.3	3731.3
52.5°	3767.8	3801.2	4082.2	4381.5	4456.9	4233.8	3939.3	3910.7	3874.2	4019.5	4003.6
55°	3230.4	3286.7	3942.5	4391.0	4589.5	4535.5	4418.8	4379.1	4343.4	4446.6	4270.4
57.5°	2974.7	3006.5	3518.5	4383.9	4758.6	4815.0	4834.8	4816.6	4766.5	4895.2	4549.0
60°	2821.5	2867.5	3316.1	4304.5	4941.2	5130.9	5255.6	5219.1	5157.9	5335.0	4847.5
62.5°	2638.1	2671.5	3114.4	4075.9	5050.0	5452.5	5650.2	5616.8	5490.6	5740.7	5088.9
65°	2299.9	2349.9	2793.7	3716.2	4903.9	5688.3	6021.7	6010.6	5791.5	6047.1	5154.8
67.5°	1872.0	1917.3	2330.9	3223.2	4476.8	5600.1	6232.1	6197.1	5928.0	6070.1	4946.0
70°	1405.2	1429.8	1741.8	2462.7	3667.8	5129.4	6079.6	6072.5	5720.8	5728.7	4305.3
72.5°	754.2	822.5	1158.3	1648.1	2579.4	4154.5	5418.3	5389.8	5104.0	4691.9	3096.2
75°	263.6	283.4	616.9	925.7	1401.2	2767.5	4166.4	4099.7	3817.0	3051.7	1687.0
77.5°	162.0	177.8	273.9	473.2	545.4	1201.2	2503.2	2416.6	2234.0	1319.5	576.4
80°	111.9	126.2	183.4	247.7	185.8	389.0	1151.9	1119.4	861.4	314.4	132.6
82.5°	62.7	75.4	138.9	121.5	74.6	100.8	399.3	370.0	229.4	84.9	44.5
85°	36.5	43.7	97.6	85.7	38.1	35.7	104.0	92.9	59.5	31.8	21.4
87.5°	19.1	24.6	71.5	57.2	23.0	12.7	23.8	23.0	15.1	11.1	14.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6	1476.6
2.5°	1487.8	1483.8	1504.4	1511.6	1510.0	1506.8	1514.8	1504.4	1503.6	1501.3	1498.9
5°	1514.8	1521.1	1537.8	1537.8	1515.5	1479.0	1456.8	1426.6	1401.2	1386.1	1383.8
7.5°	1555.2	1567.9	1579.1	1544.9	1468.7	1378.2	1282.1	1206.7	1140.8	1106.7	1103.5
10°	1612.4	1624.3	1615.6	1517.9	1354.4	1167.0	1010.6	853.4	774.8	732.0	732.0
12.5°	1680.7	1690.2	1637.0	1450.4	1166.2	894.7	685.9	520.8	442.2	391.4	388.2
15°	1754.5	1756.9	1633.8	1332.9	933.6	601.0	393.8	289.0	255.6	248.5	246.9
17.5°	1818.8	1809.3	1600.5	1159.1	672.4	358.0	250.1	226.3	219.9	219.9	219.9
20°	1879.1	1847.4	1533.8	956.6	431.1	243.7	215.1	208.8	208.8	209.6	209.6
22.5°	1945.8	1883.1	1438.5	732.0	277.1	208.8	201.6	198.5	197.7	200.1	199.3
25°	2024.4	1918.1	1302.0	505.7	214.4	194.5	191.3	188.2	188.2	188.2	188.2
27.5°	2068.1	1913.3	1146.4	319.1	187.4	180.2	177.0	173.9	171.5	170.7	171.5
30°	2106.2	1885.5	943.1	223.1	169.1	161.2	158.8	154.8	150.0	148.5	148.5
32.5°	2156.2	1862.5	730.4	179.4	153.2	144.5	137.3	131.0	123.1	119.9	119.1
35°	2211.8	1820.4	535.1	158.0	138.9	127.8	116.7	106.4	96.1	92.9	92.1
37.5°	2280.9	1782.3	362.8	146.1	127.0	113.5	98.4	84.2	74.6	73.0	73.0
40°	2374.5	1750.5	250.9	135.8	115.9	100.0	81.8	66.7	60.3	58.7	58.7
42.5°	2502.4	1724.3	189.7	127.0	106.4	86.5	65.9	54.8	50.0	48.4	48.4
45°	2653.2	1683.9	160.4	119.1	96.9	73.0	54.8	46.0	43.7	43.7	43.7
47.5°	2826.3	1633.0	146.1	111.1	86.5	59.5	46.0	42.1	41.3	41.3	42.1
50°	3000.9	1572.7	135.8	101.6	74.6	50.8	42.1	39.7	39.7	40.5	40.5
52.5°	3119.2	1478.2	125.4	91.3	62.7	44.5	39.7	38.9	38.1	38.1	38.1
55°	3234.3	1395.7	111.1	80.2	52.4	41.3	38.1	37.3	37.3	36.5	36.5
57.5°	3354.2	1330.6	92.9	66.7	44.5	38.9	36.5	36.5	34.9	34.1	34.1
60°	3493.1	1273.4	71.5	52.4	38.9	36.5	34.1	33.3	31.8	30.2	30.2
62.5°	3533.6	1152.7	54.0	42.1	33.3	31.8	31.0	29.4	25.4	22.2	23.0
65°	3428.0	963.0	42.9	33.3	27.0	27.0	24.6	20.6	16.7	14.3	14.3
67.5°	3136.7	719.3	34.9	26.2	21.4	20.6	17.5	15.1	10.3	8.7	8.7
70°	2584.9	475.5	28.6	20.6	17.5	14.3	11.9	11.1	7.9	6.4	6.4
72.5°	1811.7	258.0	23.8	16.7	12.7	9.5	7.9	7.1	5.6	4.8	4.0
75°	956.6	99.2	19.1	12.7	7.9	6.4	4.8	4.8	4.0	3.2	3.2
77.5°	327.9	42.1	13.5	7.1	5.6	4.0	3.2	2.4	3.2	2.4	2.4
80°	77.8	24.6	8.7	4.8	3.2	2.4	2.4	1.6	1.6	1.6	1.6
82.5°	34.1	14.3	5.6	3.2	3.2	2.4	1.6	0.8	0.8	0.8	0.8
85°	23.0	8.7	4.0	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0
87.5°	18.3	5.6	3.2	3.2	2.4	1.6	0.8	0.0	0.0	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)