

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: P671139

Luminaire Tested: **CCP-SA-1E-827-U-T4W**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671139
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-827-U-T4W
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T4W
distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5070.4 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

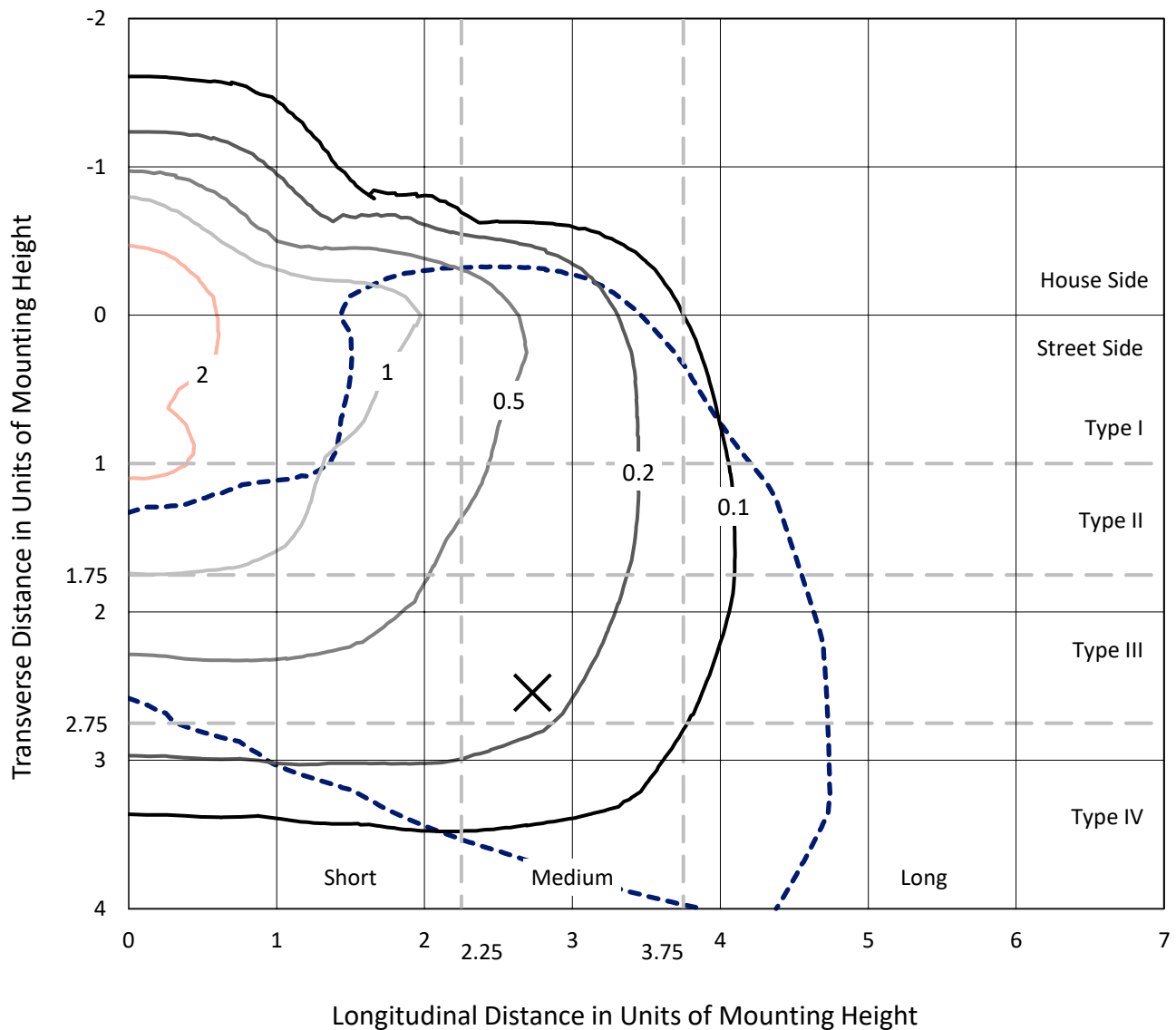
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

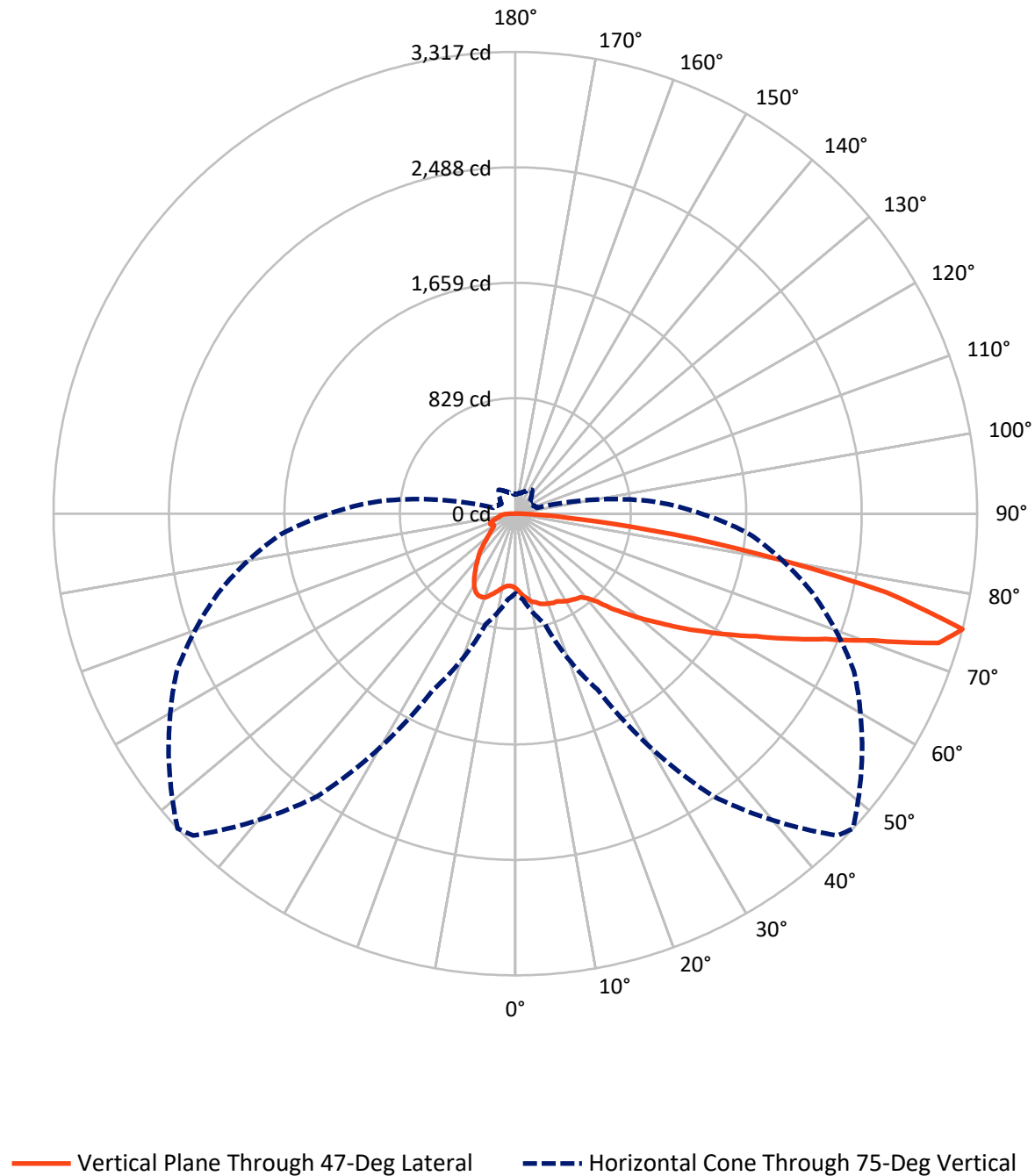
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.6	0.0	1212.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3857.8	0.0	3857.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	5070.4	0.0	5070.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.1
10°-20°	180.7	3.6
20°-30°	309.6	6.1
30°-40°	433.1	8.5
40°-50°	603.9	11.9
50°-60°	902.7	17.8
60°-70°	1301.5	25.7
70°-80°	1107.9	21.8
80°-90°	176.5	3.5
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°	5070.4	100.0
0°-180°	5070.4	100.0



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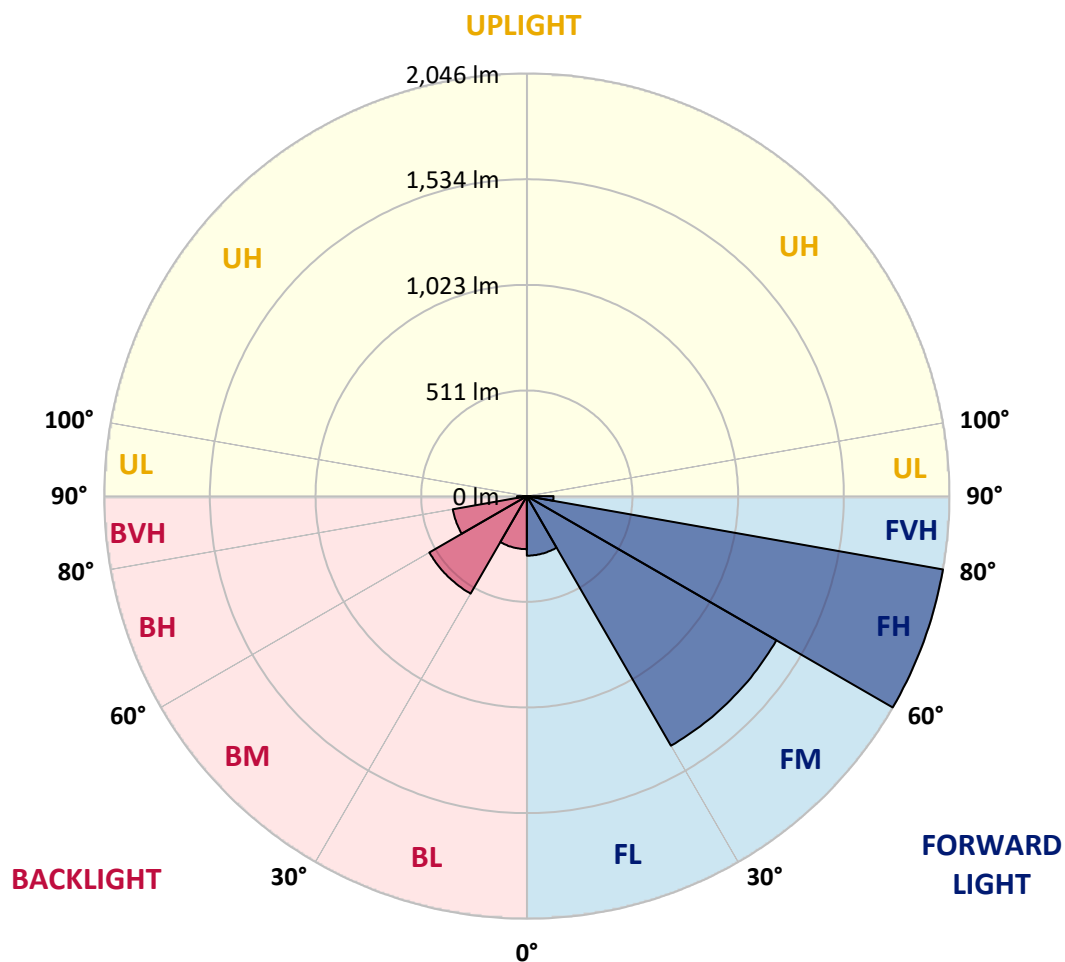
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.1	5.7			
FM	(30°-60°)	1394.8	27.5			
FH	(60°-80°)	2045.6	40.3			G2/5000
FVH	(80°-90°)	129.3	2.6			G2/225
BL	(0°-30°)	256.7	5.1	B1/500		
BM	(30°-60°)	545.0	10.7	B1/1000		
BH	(60°-80°)	363.8	7.2	B1/500		G1/500
BVH	(80°-90°)	47.2	0.9			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4
2.5°	577.2	579.1	579.1	575.4	571.7	564.3	564.3	556.9	553.2	543.9	540.2
5°	630.9	625.3	619.8	617.9	608.7	595.7	593.9	586.5	566.1	556.9	543.9
7.5°	669.7	667.9	666.0	658.6	642.0	621.6	616.1	605.0	584.6	566.1	551.3
10°	701.2	708.6	701.2	684.5	667.9	645.7	643.8	623.5	605.0	582.8	564.3
12.5°	736.3	738.2	725.2	704.9	679.0	660.5	653.1	645.7	625.3	606.8	579.1
15°	760.4	756.7	747.4	719.7	690.1	671.6	673.4	664.2	642.0	629.0	599.4
17.5°	760.4	760.4	745.6	725.2	699.3	682.7	682.7	677.1	662.3	643.8	623.5
20°	745.6	745.6	736.3	725.2	695.6	691.9	688.2	684.5	684.5	667.9	638.3
22.5°	727.1	723.4	727.1	708.6	688.2	691.9	697.5	695.6	690.1	675.3	654.9
25°	708.6	710.4	714.1	701.2	682.7	699.3	697.5	706.7	703.0	691.9	675.3
27.5°	706.7	710.4	712.3	699.3	691.9	706.7	714.1	723.4	725.2	714.1	693.8
30°	734.5	732.6	730.8	714.1	708.6	721.5	728.9	741.9	753.0	728.9	712.3
32.5°	806.6	795.5	784.4	740.0	723.4	732.6	740.0	758.5	760.4	747.4	723.4
35°	921.3	913.9	876.9	799.2	753.0	743.7	751.1	764.1	767.8	758.5	740.0
37.5°	1052.7	1049.0	997.2	902.8	814.0	769.6	762.2	780.7	795.5	775.2	749.3
40°	1182.2	1167.4	1130.4	1037.9	891.7	808.5	799.2	808.5	814.0	799.2	782.6
42.5°	1298.7	1282.1	1272.8	1180.3	993.5	873.2	865.8	843.6	860.3	841.8	819.6
45°	1396.8	1393.1	1389.4	1309.8	1110.0	978.7	973.1	915.8	934.3	919.5	888.0
47.5°	1467.1	1483.7	1478.2	1433.8	1243.2	1091.5	1074.9	1000.9	1028.6	1013.8	982.4
50°	1550.3	1559.6	1554.0	1524.4	1367.2	1221.0	1189.6	1113.7	1145.2	1143.3	1126.7
52.5°	1624.3	1652.1	1620.6	1618.8	1544.8	1361.6	1308.0	1235.8	1287.6	1308.0	1306.1
55°	1711.3	1733.5	1724.2	1720.5	1703.9	1498.5	1450.4	1363.5	1450.4	1480.0	1505.9
57.5°	1785.3	1783.4	1818.6	1861.1	1881.5	1655.8	1598.4	1496.7	1628.0	1661.3	1733.5
60°	1818.6	1850.0	1909.2	2016.5	2073.9	1824.1	1764.9	1683.5	1807.5	1833.4	1966.6
62.5°	1840.8	1868.5	1983.2	2164.5	2197.8	1996.2	1940.7	1859.3	2003.6	2022.1	2220.0
65°	1779.7	1805.6	2033.2	2220.0	2338.4	2181.2	2168.2	2083.1	2199.7	2210.8	2486.4
67.5°	1709.4	1737.2	1990.6	2290.3	2525.3	2427.2	2406.9	2305.1	2393.9	2381.0	2689.9
70°	1585.5	1622.5	1881.5	2351.4	2732.5	2771.3	2730.6	2586.3	2595.6	2473.5	2699.2
72.5°	1208.1	1232.1	1472.6	2109.0	2828.7	3248.6	3178.3	2889.7	2784.3	2492.0	2382.8
75°	573.5	617.9	821.4	1394.9	2479.0	3270.8	3317.1	3039.6	2684.4	2210.8	1689.1
77.5°	166.5	166.5	249.8	592.0	1554.0	2636.3	2723.2	2580.8	2214.5	1637.3	888.0
80°	90.7	96.2	131.4	209.1	682.7	1663.2	1789.0	1711.3	1304.3	647.5	229.4
82.5°	51.8	53.7	87.0	125.8	310.8	904.7	978.7	888.0	495.8	196.1	107.3
85°	29.6	31.5	50.0	83.3	185.0	333.0	362.6	314.5	199.8	131.4	53.7
87.5°	14.8	14.8	24.1	38.9	94.4	94.4	92.5	112.9	120.3	79.6	24.1
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°	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4	538.4
2.5°	538.4	536.5	536.5	529.1	527.3	521.7	521.7	518.0	516.2	521.7	521.7
5°	540.2	531.0	529.1	521.7	523.6	519.9	527.3	523.6	521.7	521.7	519.9
7.5°	543.9	534.7	527.3	521.7	519.9	525.4	534.7	534.7	545.8	540.2	540.2
10°	553.2	547.6	538.4	534.7	534.7	540.2	551.3	558.7	568.0	568.0	562.4
12.5°	575.4	566.1	555.0	549.5	556.9	562.4	573.5	580.9	592.0	595.7	592.0
15°	592.0	582.8	579.1	575.4	580.9	588.3	597.6	605.0	617.9	621.6	619.8
17.5°	614.2	603.1	601.3	603.1	606.8	612.4	617.9	623.5	632.7	632.7	632.7
20°	625.3	621.6	619.8	625.3	632.7	640.1	636.4	632.7	630.9	634.6	632.7
22.5°	645.7	642.0	643.8	649.4	649.4	645.7	640.1	627.2	623.5	627.2	623.5
25°	664.2	660.5	660.5	656.8	654.9	642.0	630.9	619.8	606.8	612.4	610.5
27.5°	682.7	680.8	680.8	666.0	647.5	625.3	610.5	597.6	590.2	599.4	593.9
30°	704.9	706.7	697.5	662.3	617.9	593.9	577.2	575.4	573.5	579.1	577.2
32.5°	725.2	727.1	712.3	656.8	595.7	549.5	532.8	534.7	543.9	553.2	562.4
35°	736.3	745.6	727.1	638.3	551.3	499.5	481.0	497.7	514.3	527.3	536.5
37.5°	756.7	780.7	749.3	617.9	512.5	455.1	442.2	447.7	468.1	488.4	497.7
40°	786.3	814.0	754.8	579.1	460.7	410.7	403.3	405.2	412.6	425.5	434.8
42.5°	838.1	867.7	760.4	529.1	408.9	383.0	362.6	357.1	351.5	351.5	349.7
45°	913.9	941.7	753.0	466.2	357.1	338.6	323.8	310.8	296.0	272.0	275.7
47.5°	1024.9	1047.1	758.5	410.7	309.0	294.2	283.1	268.3	246.1	220.2	218.3
50°	1193.3	1160.0	751.1	353.4	273.8	260.9	251.6	231.3	205.4	186.9	185.0
52.5°	1389.4	1322.8	743.7	305.3	244.2	233.1	225.7	203.5	179.5	170.2	168.4
55°	1626.2	1530.0	754.8	262.7	222.0	212.8	205.4	185.0	166.5	159.1	157.3
57.5°	1905.5	1753.8	815.9	229.4	198.0	194.3	192.4	175.8	159.1	153.6	151.7
60°	2168.2	1968.4	856.6	205.4	175.8	179.5	183.2	175.8	157.3	153.6	153.6
62.5°	2388.4	2146.0	791.8	185.0	164.7	175.8	192.4	186.9	179.5	183.2	179.5
65°	2582.6	2207.1	592.0	173.9	159.1	185.0	212.8	210.9	194.3	198.0	196.1
67.5°	2615.9	2133.1	386.7	164.7	155.4	203.5	238.7	216.5	183.2	183.2	177.6
70°	2477.2	1935.1	259.0	155.4	153.6	203.5	244.2	203.5	172.1	172.1	164.7
72.5°	2033.2	1546.6	199.8	146.2	140.6	181.3	231.3	192.4	161.0	157.3	144.3
75°	1335.7	997.2	162.8	138.8	122.1	159.1	209.1	177.6	153.6	142.5	136.9
77.5°	654.9	447.7	136.9	122.1	105.5	138.8	190.6	168.4	144.3	133.2	129.5
80°	179.5	161.0	114.7	107.3	88.8	120.3	179.5	161.0	135.1	124.0	118.4
82.5°	101.8	99.9	92.5	87.0	74.0	120.3	181.3	161.0	127.7	125.8	107.3
85°	55.5	59.2	66.6	64.8	57.4	107.3	172.1	140.6	103.6	87.0	87.0
87.5°	22.2	27.8	33.3	37.0	38.9	79.6	129.5	107.3	79.6	66.6	66.6
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)