

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: STREETWORKS

Report Number: P483773

Luminaire Tested: **IFLD-S-SA3B-830-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483773  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

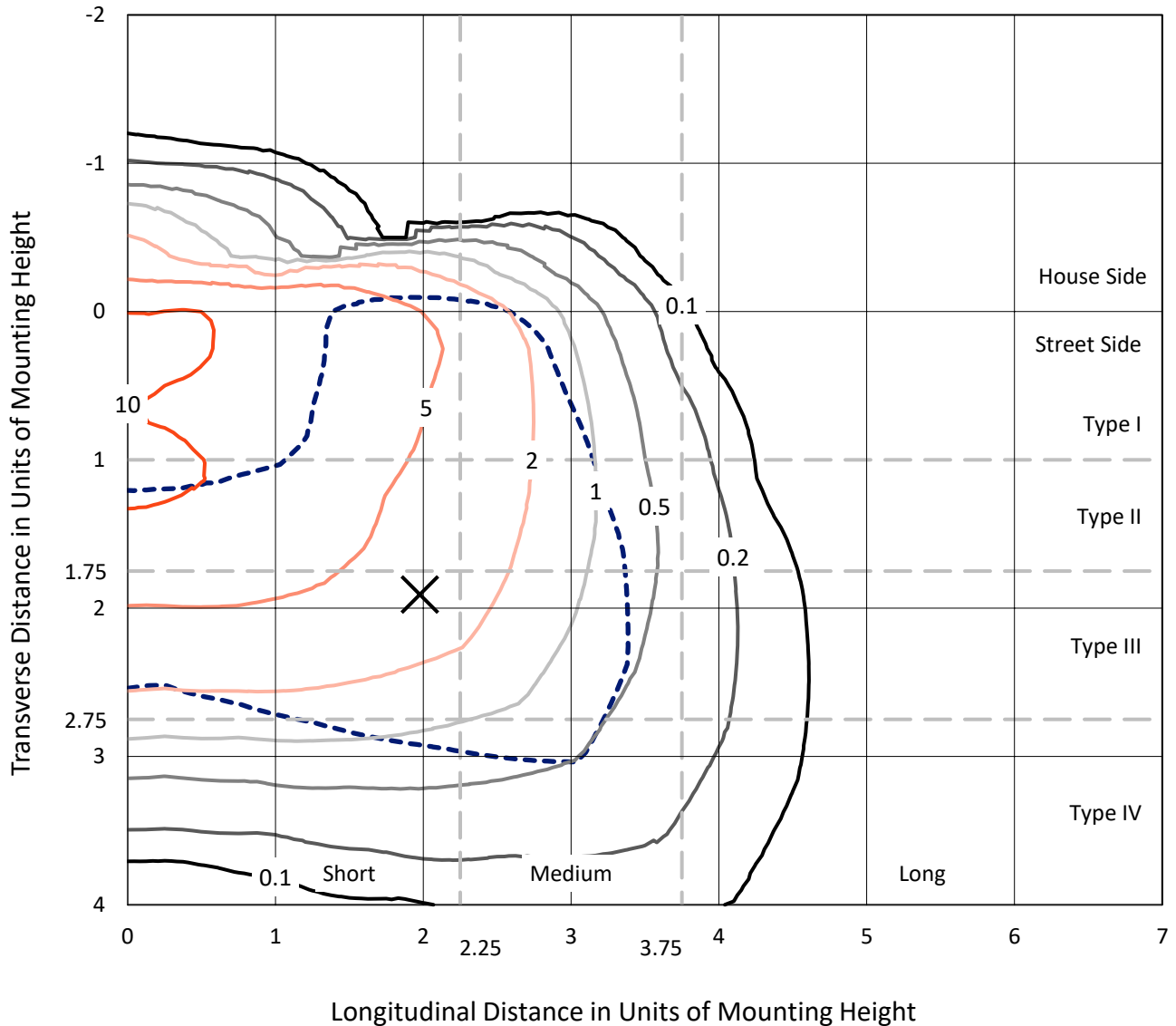
Lumens per Lamp: N/A  
Luminaire Lumens: 9976.1 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

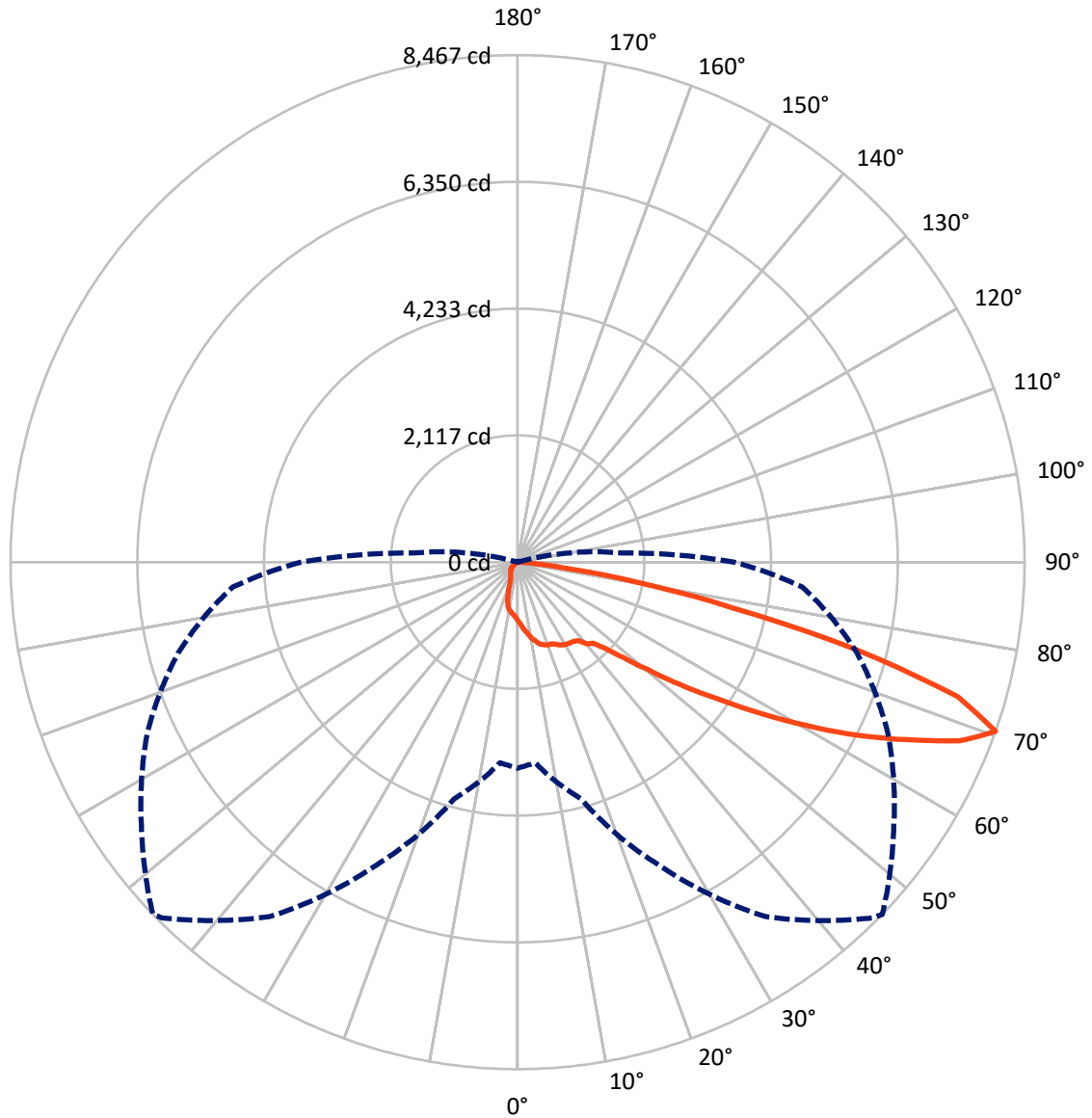
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	992.6	0.0	992.6
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	8983.5	0.0	8983.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	9976.1	0.0	9976.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	1.0
10°-20°	294.9	3.0
20°-30°	472.4	4.7
30°-40°	674.2	6.8
40°-50°	1164.2	11.7
50°-60°	2229.0	22.3
60°-70°	3300.8	33.1
70°-80°	1634.9	16.4
80°-90°	108.0	1.1
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°	9976.1	100.0
0°-180°	9976.1	100.0

**Coefficient of Utilization**



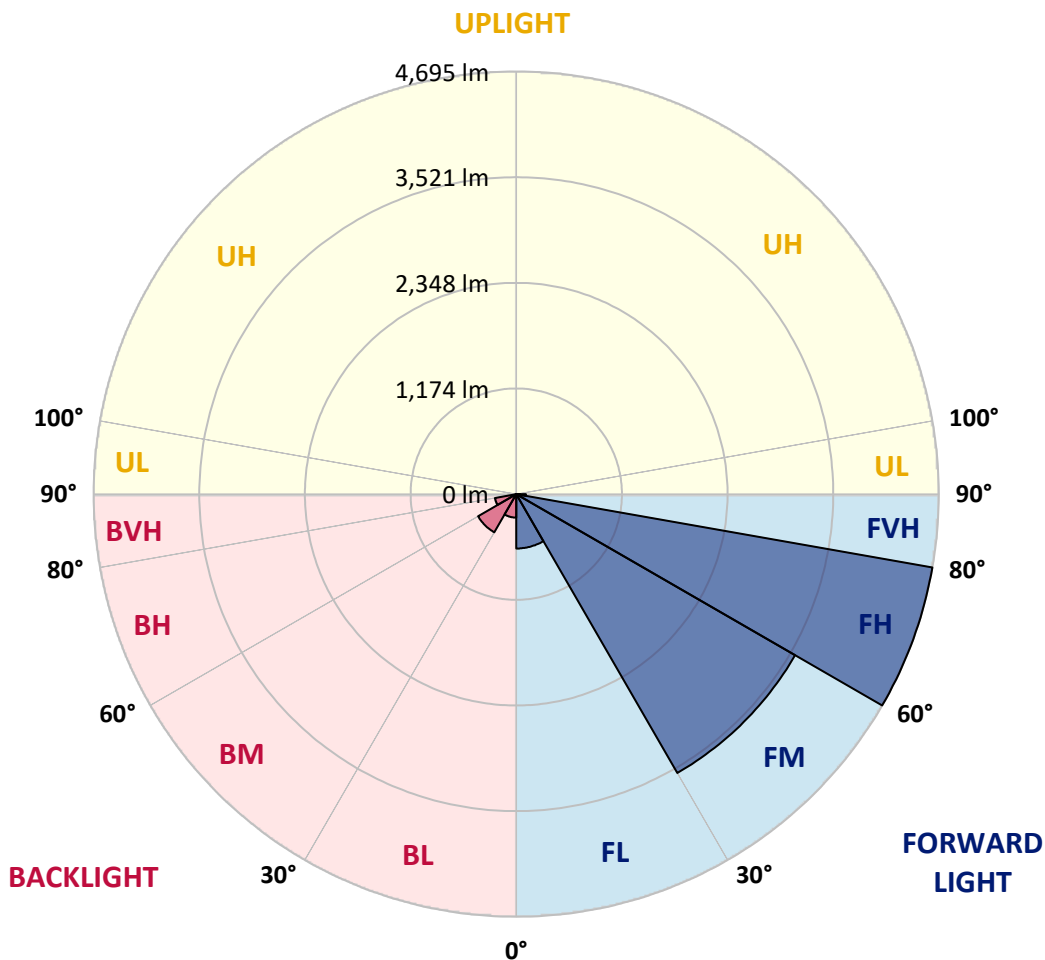
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.1	6.1			
FM (30°-60°)	3577.4	35.9			
FH (60°-80°)	4695.3	47.1			G2/5000
FVH (80°-90°)	106.7	1.1			G2/225
BL (0°-30°)	260.8	2.6	B1/500		
BM (30°-60°)	490.1	4.9	B1/1000		
BH (60°-80°)	240.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3
2.5°	1092.8	1085.6	1074.1	1069.8	1058.3	1052.6	1044.0	1039.7	1023.9	1008.1	998.0
5°	1226.3	1209.1	1214.8	1197.6	1160.3	1130.1	1128.7	1095.7	1059.8	1031.0	992.3
7.5°	1361.3	1347.0	1325.4	1301.0	1259.4	1214.8	1201.9	1170.3	1120.1	1069.8	1018.1
10°	1463.3	1453.2	1434.6	1400.1	1342.7	1292.4	1293.8	1240.7	1187.6	1130.1	1059.8
12.5°	1526.5	1530.8	1503.5	1469.0	1418.8	1355.6	1354.1	1318.2	1257.9	1197.6	1114.3
15°	1589.6	1605.4	1563.8	1523.6	1459.0	1413.0	1421.6	1378.6	1319.7	1250.7	1158.8
17.5°	1599.7	1604.0	1595.4	1536.5	1489.1	1450.4	1451.8	1423.1	1378.6	1303.9	1224.9
20°	1582.5	1579.6	1569.5	1526.5	1494.9	1471.9	1473.3	1466.1	1441.7	1381.4	1273.7
22.5°	1532.2	1532.2	1519.3	1490.6	1476.2	1497.7	1480.5	1507.8	1481.9	1446.0	1357.0
25°	1492.0	1507.8	1500.6	1481.9	1487.7	1516.4	1525.0	1550.9	1546.6	1502.0	1414.5
27.5°	1535.1	1516.4	1520.7	1499.2	1520.7	1563.8	1568.1	1586.8	1585.3	1549.4	1466.1
30°	1563.8	1581.0	1548.0	1500.6	1523.6	1596.8	1593.9	1618.4	1629.8	1586.8	1515.0
32.5°	1655.7	1641.3	1614.1	1550.9	1553.7	1595.4	1608.3	1639.9	1647.1	1621.2	1562.4
35°	1843.8	1822.3	1703.1	1608.3	1593.9	1614.1	1622.7	1684.4	1697.3	1668.6	1612.6
37.5°	2133.9	2085.1	1941.5	1731.8	1667.2	1662.9	1662.9	1744.7	1793.6	1727.5	1687.3
40°	2548.9	2480.0	2324.9	1960.1	1763.4	1780.6	1797.9	1842.4	1836.6	1793.6	1784.9
42.5°	3077.3	3024.2	2856.2	2343.5	1947.2	1861.0	1846.7	1907.0	1997.5	1980.2	1974.5
45°	3518.2	3521.0	3413.3	2869.1	2264.6	2046.3	2056.3	2102.3	2254.5	2241.6	2240.1
47.5°	3839.8	3799.6	3783.8	3376.0	2726.9	2398.1	2383.7	2415.3	2613.5	2695.4	2732.7
50°	4132.8	4105.5	4068.2	3868.6	3282.7	2839.0	2824.6	2827.5	3130.5	3245.3	3337.2
52.5°	4496.1	4530.6	4407.1	4285.0	4002.1	3411.9	3396.1	3340.1	3716.3	3874.3	3983.4
55°	4944.1	4879.5	4740.2	4803.4	4689.9	4030.8	4002.1	3936.1	4384.1	4450.1	4565.0
57.5°	5043.2	4994.4	5138.0	5362.0	5471.1	4757.4	4745.9	4626.8	4945.6	4885.2	5209.8
60°	5290.2	5303.1	5502.7	5947.9	6137.4	5596.1	5540.1	5330.4	5489.8	5501.3	5847.4
62.5°	5544.4	5514.2	5960.8	6388.7	6680.2	6390.2	6371.5	5955.1	6136.0	5989.5	6447.6
65°	5357.7	5403.6	6042.6	6759.2	7383.9	7167.0	7151.2	6556.7	6655.8	6473.4	6691.7
67.5°	4694.3	4600.9	5495.5	6589.8	7745.7	7981.2	7964.0	7213.0	6948.8	6470.6	6184.8
70°	3440.6	3360.2	4089.7	5580.3	7227.3	8397.7	8466.6	7669.6	6829.6	5867.5	4771.8
72.5°	1685.9	1687.3	2291.8	3783.8	5718.1	7653.8	7688.3	7032.0	5867.5	4325.2	2702.5
75°	498.3	504.0	848.7	1855.3	3696.2	5812.9	5851.7	5337.6	4066.7	2234.4	921.9
77.5°	182.4	182.4	281.5	696.5	1843.8	3669.0	3666.1	3276.9	2059.2	756.8	215.4
80°	94.8	99.1	146.5	284.3	798.4	1911.3	1983.1	1604.0	782.6	318.8	63.2
82.5°	38.8	43.1	80.4	146.5	383.4	670.6	733.8	629.0	340.3	222.6	28.7
85°	11.5	12.9	38.8	81.9	150.8	168.0	186.7	211.1	214.0	172.3	12.9
87.5°	1.4	1.4	15.8	27.3	33.0	35.9	41.6	41.6	109.1	120.6	7.2
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°	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3
2.5°	986.5	979.3	967.9	942.0	936.3	917.6	916.2	898.9	904.7	893.2	888.9
5°	979.3	963.5	932.0	911.9	891.8	878.8	870.2	863.0	861.6	855.9	853.0
7.5°	992.3	970.7	921.9	890.3	855.9	844.4	825.7	824.3	814.2	804.2	804.2
10°	1035.3	996.6	943.4	890.3	845.8	808.5	765.4	733.8	722.3	696.5	699.3
12.5°	1069.8	1035.3	957.8	903.2	835.7	751.0	656.2	583.0	548.5	515.5	528.4
15°	1118.6	1068.4	985.1	906.1	797.0	650.5	495.4	413.6	382.0	374.8	373.4
17.5°	1171.8	1118.6	1019.6	898.9	718.0	502.6	364.7	317.4	323.1	331.7	330.3
20°	1230.6	1166.0	1045.4	874.5	593.1	364.7	298.7	297.3	305.9	318.8	321.7
22.5°	1292.4	1236.4	1077.0	801.3	442.3	292.9	287.2	287.2	292.9	308.7	305.9
25°	1361.3	1286.6	1092.8	687.8	317.4	270.0	272.8	278.6	281.5	294.4	295.8
27.5°	1414.5	1342.7	1097.1	551.4	258.5	249.9	257.0	264.2	268.5	278.6	282.9
30°	1463.3	1413.0	1074.1	410.7	236.9	232.6	235.5	245.6	254.2	262.8	262.8
32.5°	1525.0	1453.2	1021.0	291.5	224.0	216.8	215.4	219.7	229.8	239.8	239.8
35°	1588.2	1520.7	936.3	234.1	212.5	202.5	196.7	192.4	196.7	203.9	209.7
37.5°	1680.1	1622.7	830.0	215.4	203.9	189.6	178.1	168.0	160.8	159.4	163.7
40°	1810.8	1737.5	693.6	202.5	193.9	176.6	159.4	142.2	126.4	116.3	117.8
42.5°	2009.0	1907.0	545.7	195.3	186.7	162.3	137.9	113.4	93.3	83.3	83.3
45°	2291.8	2131.0	400.6	188.1	178.1	145.0	113.4	84.7	64.6	58.9	60.3
47.5°	2718.3	2401.0	287.2	176.6	166.6	126.4	89.0	60.3	47.4	44.5	46.0
50°	3275.5	2721.2	224.0	163.7	152.2	106.3	66.1	44.5	37.3	35.9	37.3
52.5°	3859.9	3044.3	196.7	152.2	130.7	84.7	48.8	35.9	31.6	30.2	31.6
55°	4359.7	3252.5	170.9	135.0	104.8	63.2	38.8	31.6	27.3	23.0	23.0
57.5°	4865.1	3357.3	135.0	112.0	77.5	47.4	33.0	27.3	23.0	18.7	17.2
60°	5275.8	3432.0	96.2	83.3	54.6	37.3	28.7	24.4	18.7	14.4	12.9
62.5°	5545.8	3218.1	70.4	63.2	40.2	31.6	24.4	20.1	14.4	10.1	10.1
65°	5412.2	2922.2	54.6	44.5	30.2	24.4	20.1	14.4	10.1	5.7	4.3
67.5°	4856.5	2380.9	44.5	33.0	23.0	18.7	15.8	11.5	5.7	1.4	1.4
70°	3623.0	1744.7	35.9	24.4	18.7	14.4	11.5	7.2	2.9	1.4	0.0
72.5°	1981.7	954.9	28.7	20.1	14.4	11.5	8.6	5.7	2.9	0.0	0.0
75°	654.8	254.2	21.5	14.4	8.6	7.2	5.7	4.3	1.4	0.0	0.0
77.5°	158.0	66.1	17.2	12.9	7.2	4.3	2.9	1.4	1.4	0.0	0.0
80°	48.8	27.3	12.9	8.6	5.7	4.3	1.4	0.0	0.0	0.0	0.0
82.5°	20.1	12.9	5.7	5.7	4.3	1.4	0.0	0.0	0.0	0.0	0.0
85°	10.1	7.2	4.3	2.9	2.9	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.9	1.4	1.4	0.0	0.0	0.0	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)