

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: P483574

Luminaire Tested: **IFLD-S-SA2C-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483574
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

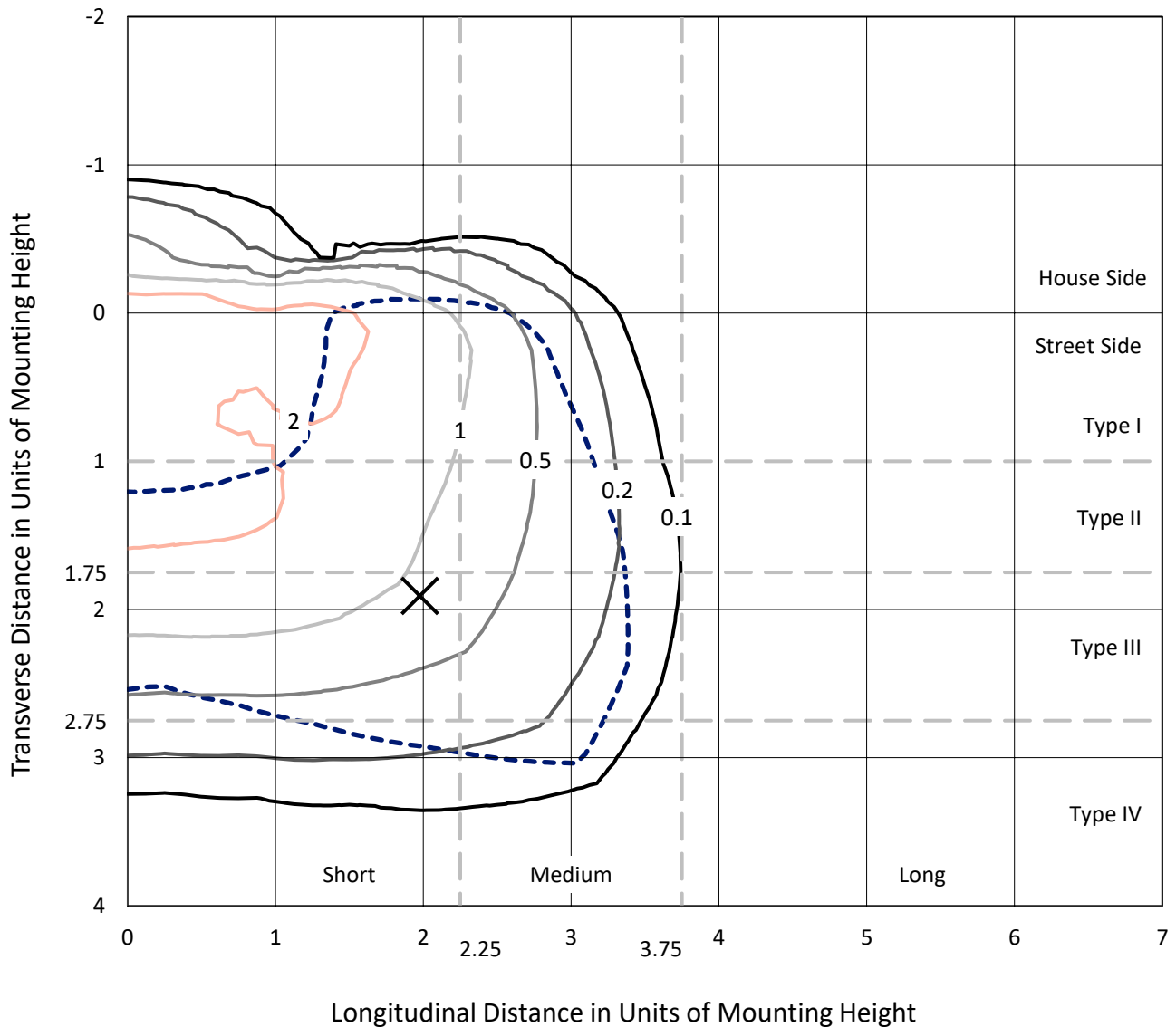
Lumens per Lamp: N/A
Luminaire Lumens: 10343.5 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

REPORT NUMBER: P483574
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

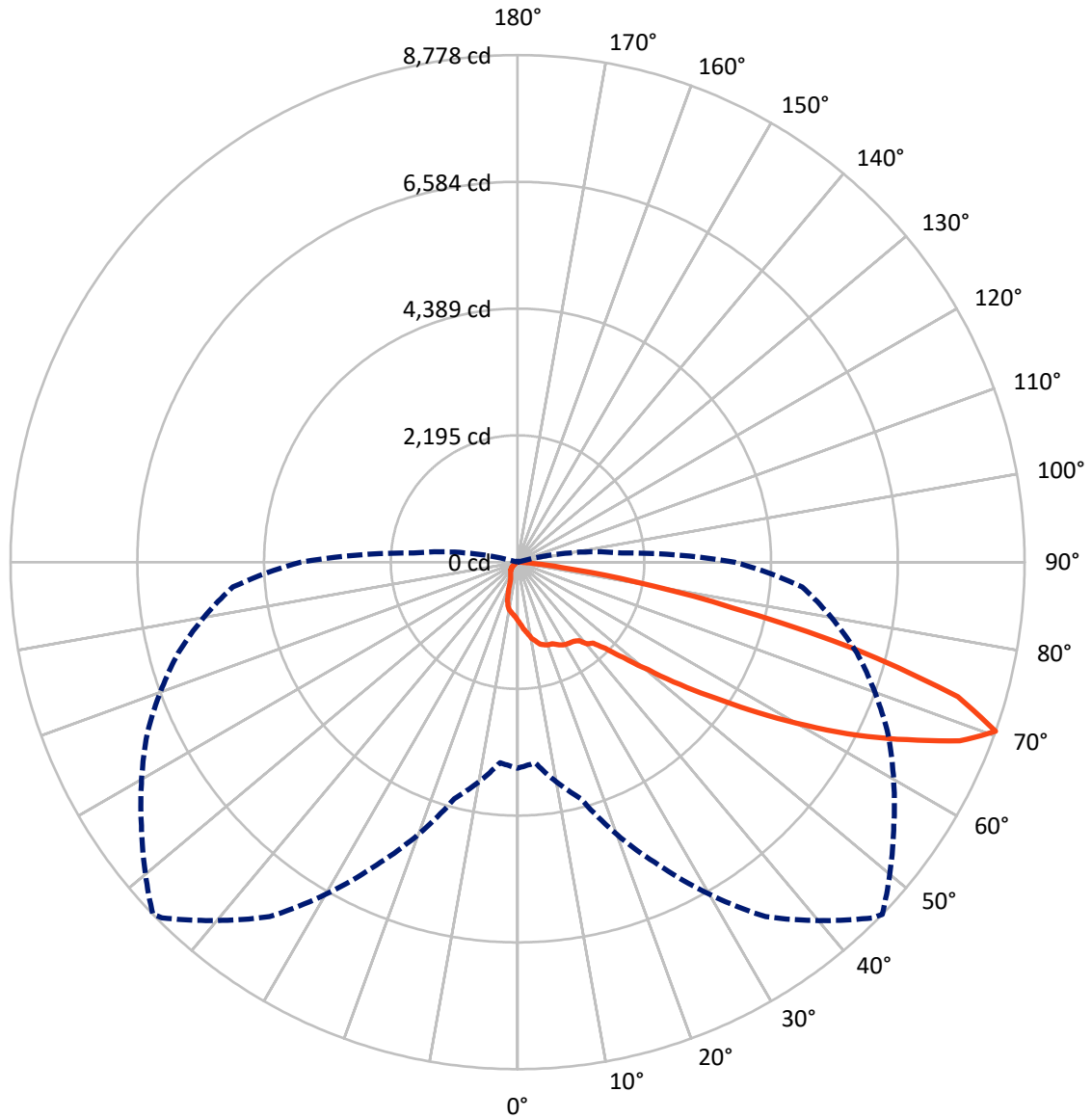
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P483574
CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W-HSS

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
House Side	Lumens	1029.2	0.0	1029.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9314.3	0.0	9314.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	10343.5	0.0	10343.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.0
10°-20°	305.8	3.0
20°-30°	489.8	4.7
30°-40°	699.1	6.8
40°-50°	1207.1	11.7
50°-60°	2311.1	22.3
60°-70°	3422.4	33.1
70°-80°	1695.1	16.4
80°-90°	112.0	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°	10343.5	100.0
0°-180°	10343.5	100.0



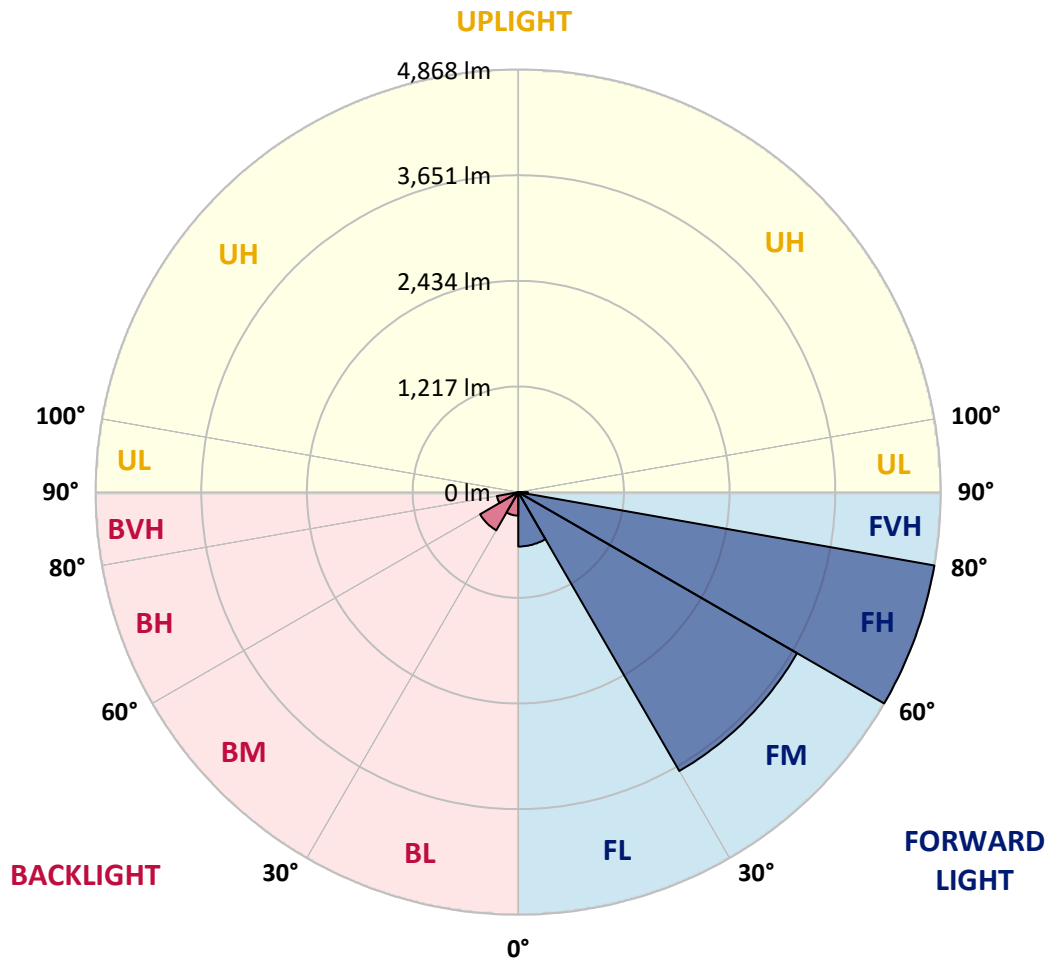
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 CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.4	6.1			
FM (30°-60°)	3709.1	35.9			
FH (60°-80°)	4868.2	47.1			G2/5000
FVH (80°-90°)	110.6	1.1			G2/225
BL (0°-30°)	270.4	2.6	B1/500		
BM (30°-60°)	508.1	4.9	B1/1000		
BH (60°-80°)	249.3	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





REPORT NUMBER: P483574

CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4
2.5°	1133.0	1125.6	1113.7	1109.2	1097.3	1091.3	1082.4	1077.9	1061.6	1045.2	1034.8
5°	1271.5	1253.6	1259.6	1241.7	1203.0	1171.7	1170.2	1136.0	1098.8	1069.0	1028.8
7.5°	1411.4	1396.6	1374.2	1348.9	1305.7	1259.6	1246.2	1213.4	1161.3	1109.2	1055.6
10°	1517.2	1506.7	1487.4	1451.6	1392.1	1340.0	1341.5	1286.4	1231.3	1171.7	1098.8
12.5°	1582.7	1587.1	1558.8	1523.1	1471.0	1405.5	1404.0	1366.8	1304.2	1241.7	1155.4
15°	1648.2	1664.6	1621.4	1579.7	1512.7	1465.0	1474.0	1429.3	1368.3	1296.8	1201.5
17.5°	1658.6	1663.1	1654.1	1593.1	1544.0	1503.8	1505.2	1475.5	1429.3	1351.9	1270.0
20°	1640.7	1637.8	1627.3	1582.7	1549.9	1526.1	1527.6	1520.1	1494.8	1432.3	1320.6
22.5°	1588.6	1588.6	1575.2	1545.4	1530.6	1552.9	1535.0	1563.3	1536.5	1499.3	1407.0
25°	1546.9	1563.3	1555.9	1536.5	1542.5	1572.2	1581.2	1608.0	1603.5	1557.4	1466.5
27.5°	1591.6	1572.2	1576.7	1554.4	1576.7	1621.4	1625.8	1645.2	1643.7	1606.5	1520.1
30°	1621.4	1639.2	1605.0	1555.9	1579.7	1655.6	1652.6	1678.0	1689.9	1645.2	1570.8
32.5°	1716.7	1701.8	1673.5	1608.0	1611.0	1654.1	1667.5	1700.3	1707.7	1680.9	1619.9
35°	1911.7	1889.4	1765.8	1667.5	1652.6	1673.5	1682.4	1746.4	1759.8	1730.1	1672.0
37.5°	2212.5	2161.8	2012.9	1795.6	1728.6	1724.1	1724.1	1809.0	1859.6	1791.1	1749.4
40°	2642.7	2571.3	2410.5	2032.3	1828.3	1846.2	1864.1	1910.2	1904.3	1859.6	1850.7
42.5°	3190.6	3135.6	2961.4	2429.8	2018.9	1929.6	1914.7	1977.2	2071.0	2053.1	2047.2
45°	3647.7	3650.7	3539.0	2974.8	2347.9	2121.6	2132.1	2179.7	2337.5	2324.1	2322.6
47.5°	3981.2	3939.5	3923.2	3500.3	2827.4	2486.4	2471.5	2504.3	2709.7	2794.6	2833.3
50°	4285.0	4256.7	4218.0	4011.0	3403.6	2943.5	2928.6	2931.6	3245.7	3364.8	3460.1
52.5°	4661.6	4697.4	4569.3	4442.8	4149.5	3537.5	3521.2	3463.1	3853.2	4017.0	4130.1
55°	5126.2	5059.2	4914.8	4980.3	4862.6	4179.3	4149.5	4081.0	4545.5	4614.0	4733.1
57.5°	5228.9	5178.3	5327.2	5559.4	5672.6	4932.6	4920.7	4797.1	5127.7	5065.1	5401.6
60°	5485.0	5498.4	5705.3	6166.9	6363.4	5802.1	5744.1	5526.7	5691.9	5703.9	6062.7
62.5°	5748.5	5717.3	6180.3	6624.0	6926.2	6625.5	6606.1	6174.3	6361.9	6210.1	6685.0
65°	5555.0	5602.6	6265.2	7008.1	7655.8	7430.9	7414.6	6798.2	6900.9	6711.8	6938.1
67.5°	4867.1	4770.3	5697.9	6832.4	8031.0	8275.1	8257.3	7478.6	7204.6	6708.8	6412.6
70°	3567.3	3483.9	4240.3	5785.7	7493.5	8706.9	8778.4	7952.0	7081.1	6083.5	4947.5
72.5°	1747.9	1749.4	2376.2	3923.2	5928.7	7935.7	7971.4	7291.0	6083.5	4484.5	2802.0
75°	516.6	522.6	879.9	1923.6	3832.3	6026.9	6067.1	5534.1	4216.5	2316.7	955.9
77.5°	189.1	189.1	291.8	722.1	1911.7	3804.1	3801.1	3397.6	2135.0	784.6	223.3
80°	98.3	102.7	151.9	294.8	827.8	1981.7	2056.1	1663.1	811.4	330.5	65.5
82.5°	40.2	44.7	83.4	151.9	397.5	695.3	760.8	652.1	352.9	230.8	29.8
85°	11.9	13.4	40.2	84.9	156.3	174.2	193.6	218.9	221.8	178.7	13.4
87.5°	1.5	1.5	16.4	28.3	34.2	37.2	43.2	43.2	113.2	125.1	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483574

CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4
2.5°	1022.9	1015.4	1003.5	976.7	970.7	951.4	949.9	932.0	938.0	926.1	921.6
5°	1015.4	999.0	966.3	945.4	924.6	911.2	902.3	894.8	893.3	887.4	884.4
7.5°	1028.8	1006.5	955.9	923.1	887.4	875.5	856.1	854.6	844.2	833.8	833.8
10°	1073.5	1033.3	978.2	923.1	876.9	838.2	793.6	760.8	748.9	722.1	725.1
12.5°	1109.2	1073.5	993.1	936.5	866.5	778.7	680.4	604.5	568.7	534.5	547.9
15°	1159.8	1107.7	1021.4	939.5	826.3	674.5	513.7	428.8	396.0	388.6	387.1
17.5°	1214.9	1159.8	1057.1	932.0	744.4	521.1	378.2	329.0	335.0	343.9	342.4
20°	1276.0	1209.0	1083.9	906.7	614.9	378.2	309.7	308.2	317.1	330.5	333.5
22.5°	1340.0	1281.9	1116.7	830.8	458.6	303.7	297.8	297.8	303.7	320.1	317.1
25°	1411.4	1334.0	1133.0	713.2	329.0	279.9	282.9	288.8	291.8	305.2	306.7
27.5°	1466.5	1392.1	1137.5	571.7	268.0	259.1	266.5	274.0	278.4	288.8	293.3
30°	1517.2	1465.0	1113.7	425.8	245.7	241.2	244.2	254.6	263.5	272.5	272.5
32.5°	1581.2	1506.7	1058.6	302.2	232.3	224.8	223.3	227.8	238.2	248.6	248.6
35°	1646.7	1576.7	970.7	242.7	220.4	209.9	204.0	199.5	204.0	211.4	217.4
37.5°	1742.0	1682.4	860.6	223.3	211.4	196.5	184.6	174.2	166.8	165.3	169.7
40°	1877.5	1801.5	719.1	209.9	201.0	183.1	165.3	147.4	131.0	120.6	122.1
42.5°	2082.9	1977.2	565.8	202.5	193.6	168.2	142.9	117.6	96.8	86.4	86.4
45°	2376.2	2209.5	415.4	195.0	184.6	150.4	117.6	87.8	67.0	61.0	62.5
47.5°	2818.4	2489.4	297.8	183.1	172.7	131.0	92.3	62.5	49.1	46.2	47.6
50°	3396.1	2821.4	232.3	169.7	157.8	110.2	68.5	46.2	38.7	37.2	38.7
52.5°	4002.1	3156.4	204.0	157.8	135.5	87.8	50.6	37.2	32.8	31.3	32.8
55°	4520.2	3372.3	177.2	140.0	108.7	65.5	40.2	32.8	28.3	23.8	23.8
57.5°	5044.3	3481.0	140.0	116.1	80.4	49.1	34.2	28.3	23.8	19.4	17.9
60°	5470.1	3558.4	99.8	86.4	56.6	38.7	29.8	25.3	19.4	14.9	13.4
62.5°	5750.0	3336.6	73.0	65.5	41.7	32.8	25.3	20.8	14.9	10.4	10.4
65°	5611.5	3029.8	56.6	46.2	31.3	25.3	20.8	14.9	10.4	6.0	4.5
67.5°	5035.3	2468.5	46.2	34.2	23.8	19.4	16.4	11.9	6.0	1.5	1.5
70°	3756.4	1809.0	37.2	25.3	19.4	14.9	11.9	7.4	3.0	1.5	0.0
72.5°	2054.6	990.1	29.8	20.8	14.9	11.9	8.9	6.0	3.0	0.0	0.0
75°	678.9	263.5	22.3	14.9	8.9	7.4	6.0	4.5	1.5	0.0	0.0
77.5°	163.8	68.5	17.9	13.4	7.4	4.5	3.0	1.5	1.5	0.0	0.0
80°	50.6	28.3	13.4	8.9	6.0	4.5	1.5	0.0	0.0	0.0	0.0
82.5°	20.8	13.4	6.0	6.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.4	7.4	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.0	1.5	1.5	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)