

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: P481786

Luminaire Tested: **IFLD-S-SA3D-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481786
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

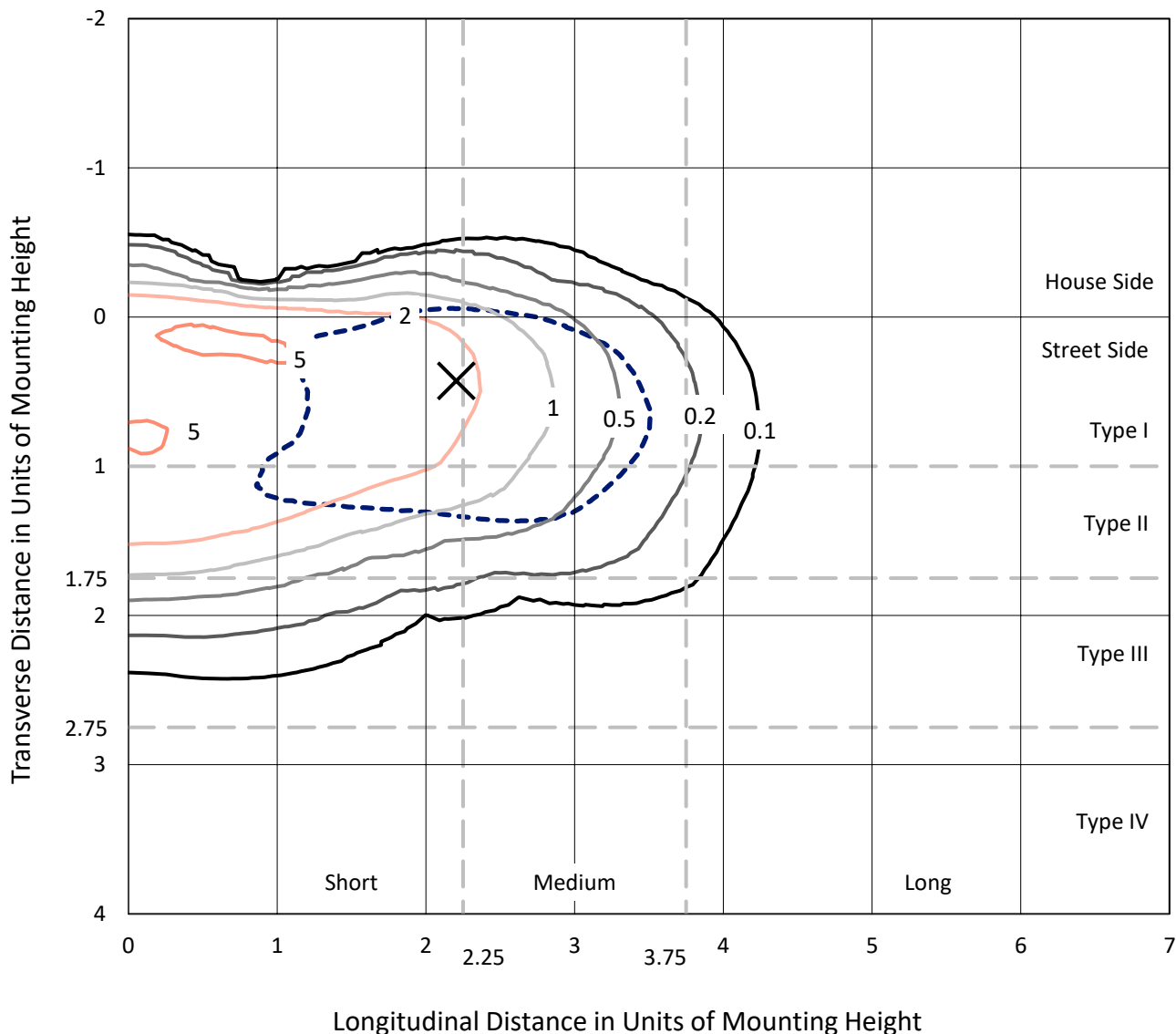
Lumens per Lamp: N/A
Luminaire Lumens: 12338.1 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

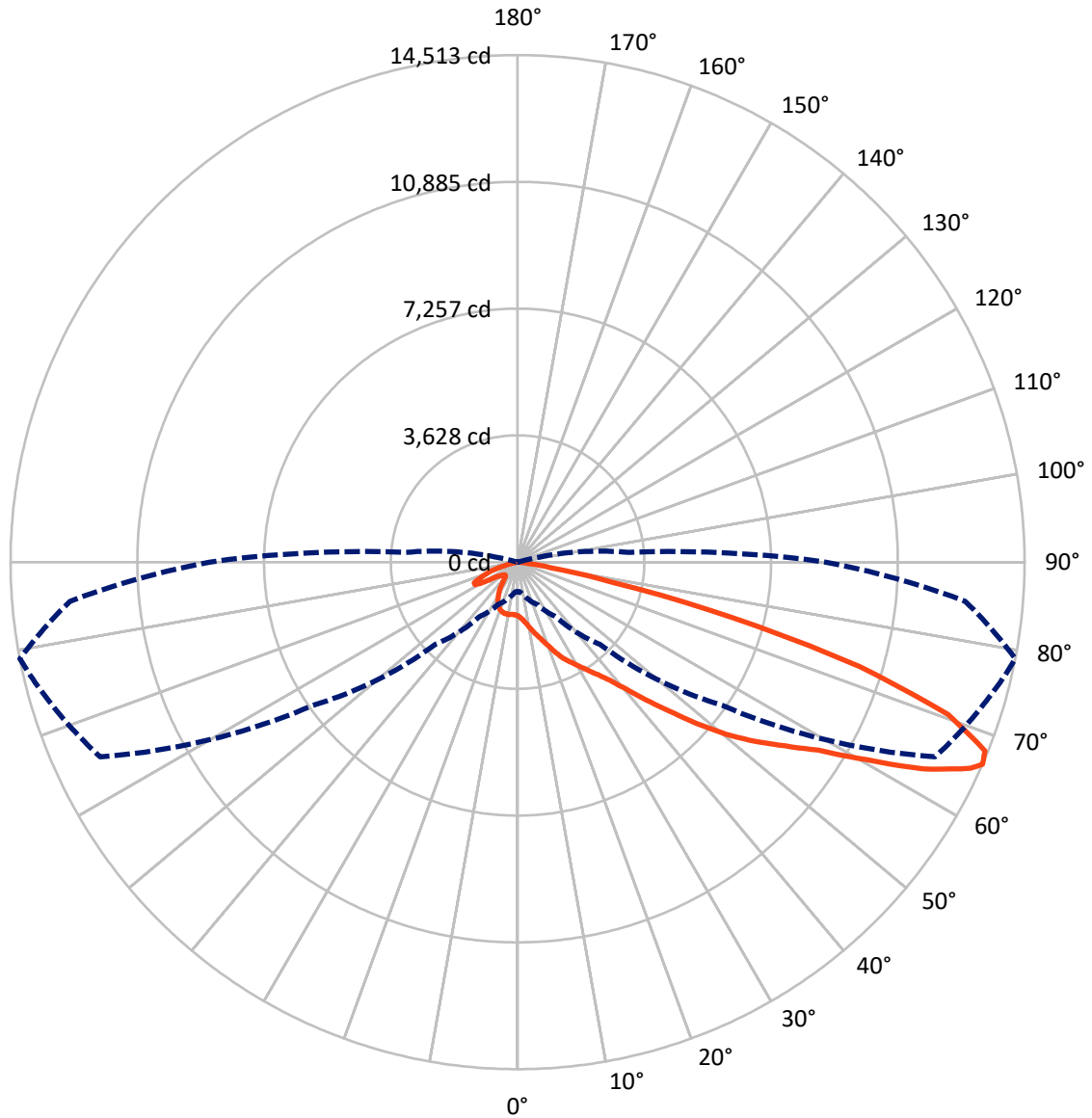
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.4	0.0	926.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11411.7	0.0	11411.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	12338.1	0.0	12338.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	1.2
10°-20°	399.5	3.2
20°-30°	663.7	5.4
30°-40°	1140.0	9.2
40°-50°	2065.3	16.7
50°-60°	3264.6	26.5
60°-70°	3322.0	26.9
70°-80°	1266.8	10.3
80°-90°	71.0	0.6
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°	12338.1	100.0
0°-180°	12338.1	100.0



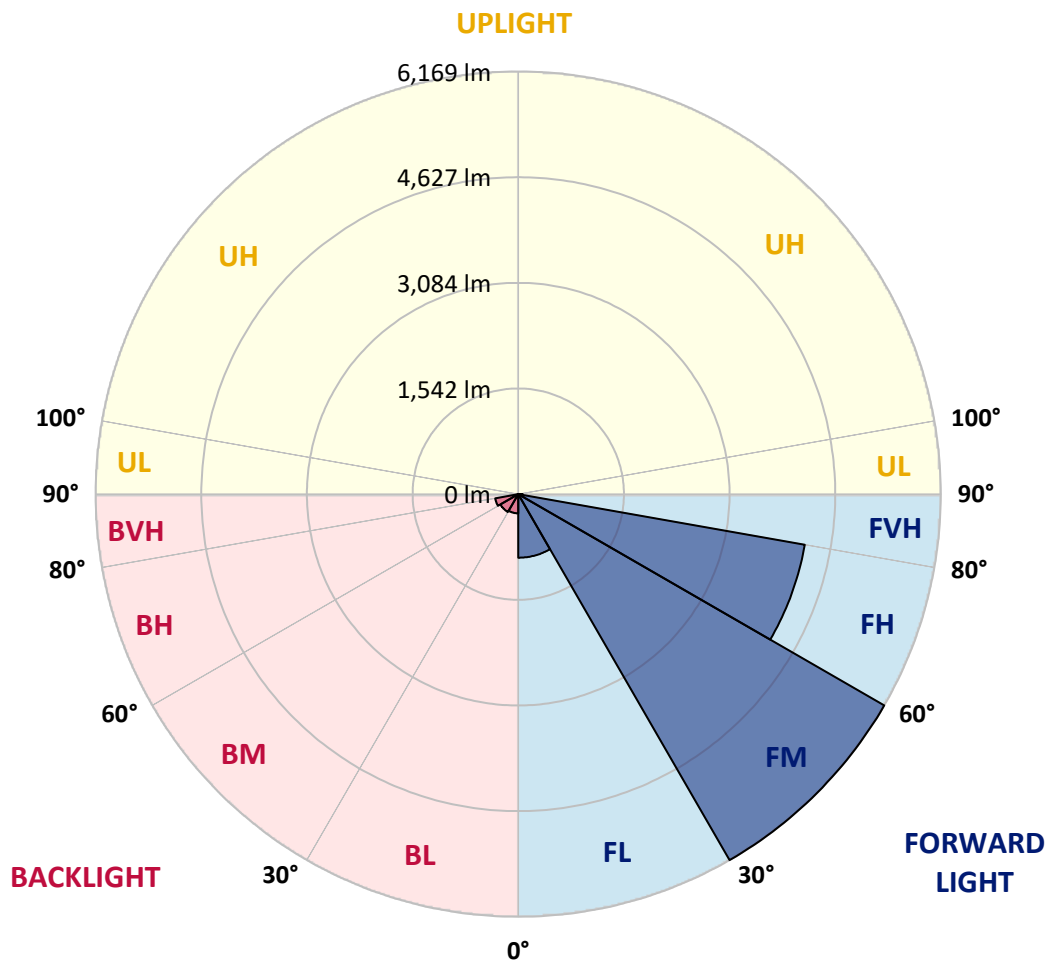
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	928.2	7.5			
FM (30°-60°)	6168.8	50.0			
FH (60°-80°)	4247.3	34.4			G2/5000
FVH (80°-90°)	67.4	0.5			G1/100
BL (0°-30°)	280.2	2.3	B1/500		
BM (30°-60°)	301.1	2.4	B1/1000		
BH (60°-80°)	341.5	2.8	B1/500		G1/500
BVH (80°-90°)	3.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1738.5	1736.6	1729.0	1715.7	1698.6	1692.9	1668.2	1633.9	1614.9	1594.0	1584.5
5°	1858.4	1848.9	1871.7	1862.2	1866.0	1820.3	1789.9	1765.2	1692.9	1664.4	1618.7
7.5°	1885.0	1894.5	1892.6	1907.8	1923.0	1940.2	1919.2	1883.1	1810.8	1769.0	1719.5
10°	1885.0	1881.2	1896.4	1917.3	1961.1	1999.1	2056.2	2008.6	1953.5	1904.0	1814.6
12.5°	1850.8	1845.1	1860.3	1904.0	1982.0	2060.0	2122.8	2168.4	2090.4	2050.5	1934.5
15°	1746.1	1740.4	1803.2	1881.2	1983.9	2111.4	2242.6	2316.8	2263.5	2200.8	2071.4
17.5°	1616.8	1624.4	1691.0	1820.3	1983.9	2136.1	2303.5	2465.1	2457.5	2377.6	2242.6
20°	1573.1	1578.8	1645.3	1738.5	1924.9	2153.2	2398.6	2626.8	2672.5	2577.4	2400.5
22.5°	1656.7	1651.0	1656.7	1713.8	1885.0	2138.0	2461.3	2811.3	2893.1	2818.9	2607.8
25°	1942.1	1938.3	1890.7	1803.2	1862.2	2103.7	2493.7	2933.1	3121.4	3052.9	2775.2
27.5°	2360.5	2345.3	2271.1	2088.5	1968.7	2124.7	2546.9	3051.0	3321.1	3243.1	2925.5
30°	2809.4	2773.3	2676.3	2448.0	2244.5	2202.7	2577.4	3138.5	3543.6	3444.7	3056.7
32.5°	3119.5	3167.0	3136.6	2904.5	2592.6	2383.4	2626.8	3248.8	3749.1	3684.4	3281.2
35°	3598.8	3654.0	3526.5	3321.1	3007.2	2670.6	2731.4	3338.2	4064.8	3956.4	3490.4
37.5°	4203.7	4245.5	4154.2	3764.3	3433.3	3024.4	2946.4	3524.6	4336.8	4285.5	3758.6
40°	4508.0	4709.6	4580.3	4228.4	3872.7	3518.9	3302.1	3743.4	4810.5	4768.6	4129.5
42.5°	4928.4	5029.2	4962.6	4702.0	4331.1	4047.7	3741.5	4169.4	5384.9	5384.9	4631.7
45°	5373.5	5377.3	5373.5	5160.4	4831.4	4684.9	4334.9	4703.9	6003.1	6071.6	5232.7
47.5°	5738.7	5852.8	5843.3	5715.9	5461.0	5405.8	4928.4	5312.6	6779.2	6899.0	5818.6
50°	5927.0	6054.4	6092.5	6159.1	6147.6	6263.7	5577.0	6018.3	7448.7	7743.5	6571.8
52.5°	5875.6	5885.2	6119.1	6381.6	6800.1	7125.3	6358.8	6819.1	8232.4	8523.4	7153.9
55°	5455.3	5419.1	5900.4	6200.9	7066.4	7652.2	7441.1	7817.7	8842.9	9286.1	7754.9
57.5°	4532.7	4542.3	4987.4	5597.9	6868.6	7861.5	8597.6	9122.6	9698.9	10145.9	8599.5
60°	3129.0	3117.6	3615.9	4321.6	5706.4	7471.5	9263.3	10813.5	10844.0	11477.4	10115.5
62.5°	1759.5	1763.3	2141.8	2744.8	3992.5	6105.8	9231.0	12609.1	12479.8	13035.2	11838.8
65°	996.7	1021.4	1282.0	1626.3	2391.0	4099.1	7939.4	13324.3	13740.9	14235.5	12885.0
66°	842.6	859.8	1082.3	1342.9	1907.8	3324.9	7146.3	13185.5	14136.5	14513.2	12864.0
67.5°	652.4	675.3	861.7	1065.2	1400.0	2301.6	5752.0	12495.0	14208.8	14429.5	12500.7
70°	447.0	462.2	604.9	808.4	956.8	1177.4	3439.0	10330.4	12892.6	13079.0	10864.9
72.5°	313.8	321.5	424.2	612.5	736.1	673.4	1706.2	7349.8	9866.3	10229.6	8451.1
75°	226.4	234.0	291.0	439.4	574.4	441.3	781.8	4694.4	6050.6	6336.0	5090.1
77.5°	163.6	173.1	197.8	283.4	416.6	310.0	384.2	2451.8	2853.2	2803.7	2189.3
80°	98.9	108.4	146.5	182.6	304.3	218.7	211.1	1023.3	1011.9	960.6	688.6
82.5°	45.7	53.3	78.0	123.6	213.0	152.2	100.8	365.2	319.6	292.9	194.0
85°	13.3	17.1	45.7	93.2	108.4	74.2	60.9	125.5	131.2	112.2	64.7
87.5°	0.0	1.9	20.9	22.8	32.3	24.7	22.8	32.3	60.9	49.5	20.9
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°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1550.2	1536.9	1504.6	1455.1	1411.4	1388.5	1356.2	1327.7	1312.5	1310.6	1308.7
5°	1588.3	1552.1	1474.1	1384.7	1318.2	1245.9	1196.4	1160.3	1126.1	1093.7	1112.7
7.5°	1639.6	1582.6	1455.1	1339.1	1194.5	1101.3	1013.8	962.5	932.0	903.5	899.7
10°	1719.5	1647.2	1441.8	1232.6	1067.1	930.1	840.7	766.6	724.7	675.3	694.3
12.5°	1827.9	1698.6	1392.4	1135.6	922.5	778.0	650.5	530.7	464.1	412.8	414.7
15°	1936.4	1767.1	1346.7	1017.6	791.3	601.1	414.7	332.9	313.8	302.4	306.2
17.5°	2042.9	1822.2	1276.3	897.8	641.0	382.3	302.4	285.3	275.8	264.4	264.4
20°	2172.2	1858.4	1188.8	787.5	441.3	283.4	258.7	247.3	232.1	216.8	218.7
22.5°	2297.8	1888.8	1088.0	646.7	296.7	245.4	216.8	201.6	188.3	173.1	173.1
25°	2423.3	1898.3	956.8	464.1	239.7	195.9	169.3	148.4	135.1	121.7	123.6
27.5°	2508.9	1839.3	833.1	296.7	192.1	148.4	117.9	100.8	89.4	76.1	76.1
30°	2558.3	1730.9	700.0	209.2	144.6	100.8	70.4	53.3	41.8	32.3	30.4
32.5°	2607.8	1643.4	549.7	159.8	95.1	53.3	26.6	9.5	0.0	0.0	0.0
35°	2706.7	1544.5	369.0	89.4	32.3	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2769.5	1407.6	169.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2927.4	1339.1	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3184.1	1291.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3465.7	1272.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3840.4	1323.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4236.0	1462.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4669.7	1594.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5048.2	1751.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5744.4	2124.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6994.1	2857.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8401.7	3401.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8917.1	3387.7	36.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8825.8	3201.3	36.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8352.2	2843.7	32.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7172.9	2349.1	32.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5468.6	1829.8	30.4	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3300.2	973.9	24.7	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1314.4	342.4	19.0	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	355.7	102.7	11.4	7.6	5.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	93.2	38.0	9.5	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	36.1	15.2	7.6	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0
87.5°	11.4	5.7	5.7	3.8	3.8	1.9	1.9	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)