

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: P481590

Luminaire Tested: **IFLD-S-SA3C-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481590
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

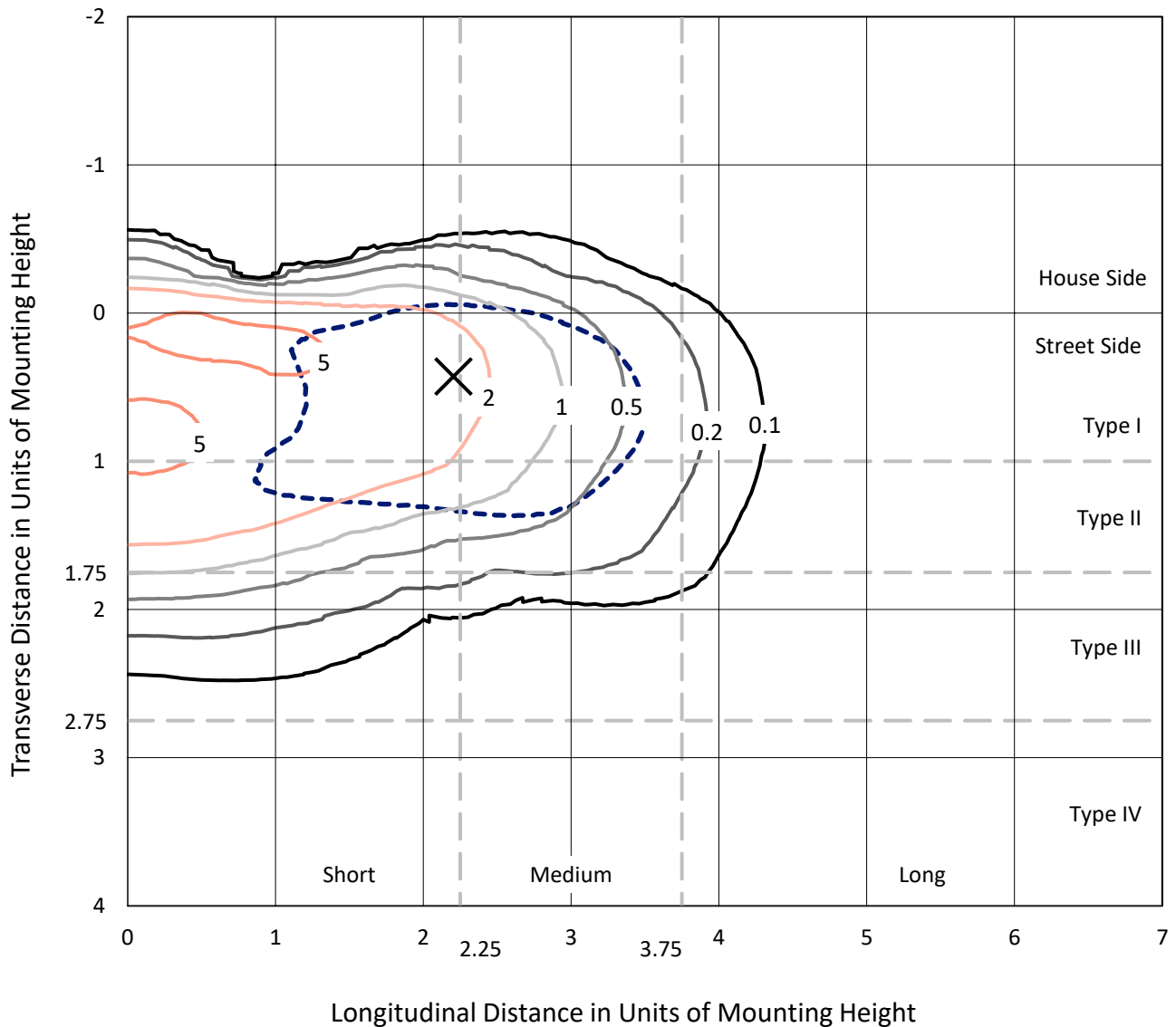
Lumens per Lamp: N/A
Luminaire Lumens: 13890.2 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

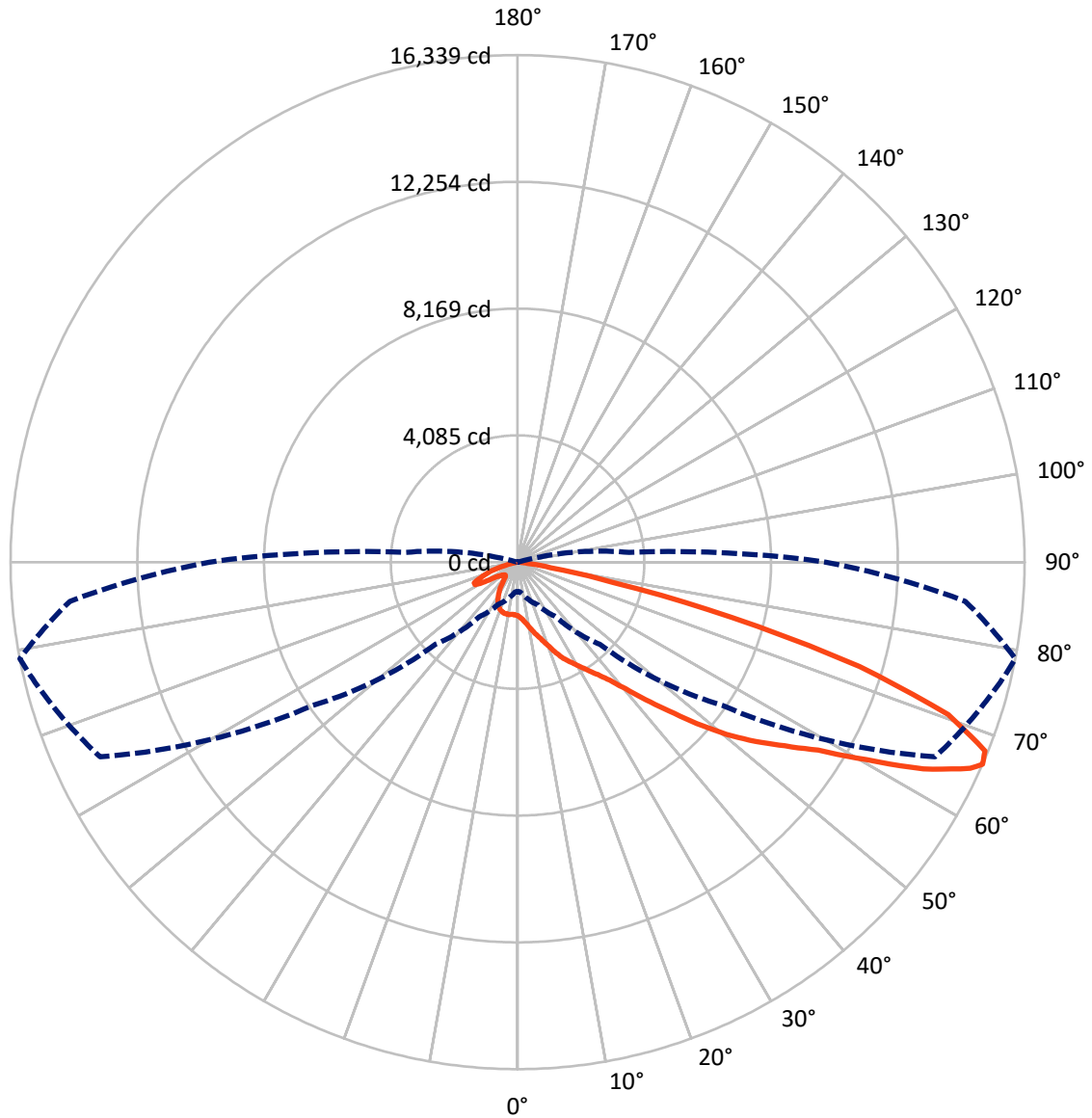
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1043.0	0.0	1043.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12847.3	0.0	12847.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	13890.2	0.0	13890.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	1.2
10°-20°	449.8	3.2
20°-30°	747.2	5.4
30°-40°	1283.4	9.2
40°-50°	2325.1	16.7
50°-60°	3675.3	26.5
60°-70°	3739.9	26.9
70°-80°	1426.2	10.3
80°-90°	80.0	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°	13890.2	100.0
0°-180°	13890.2	100.0

Coefficient of Utilization



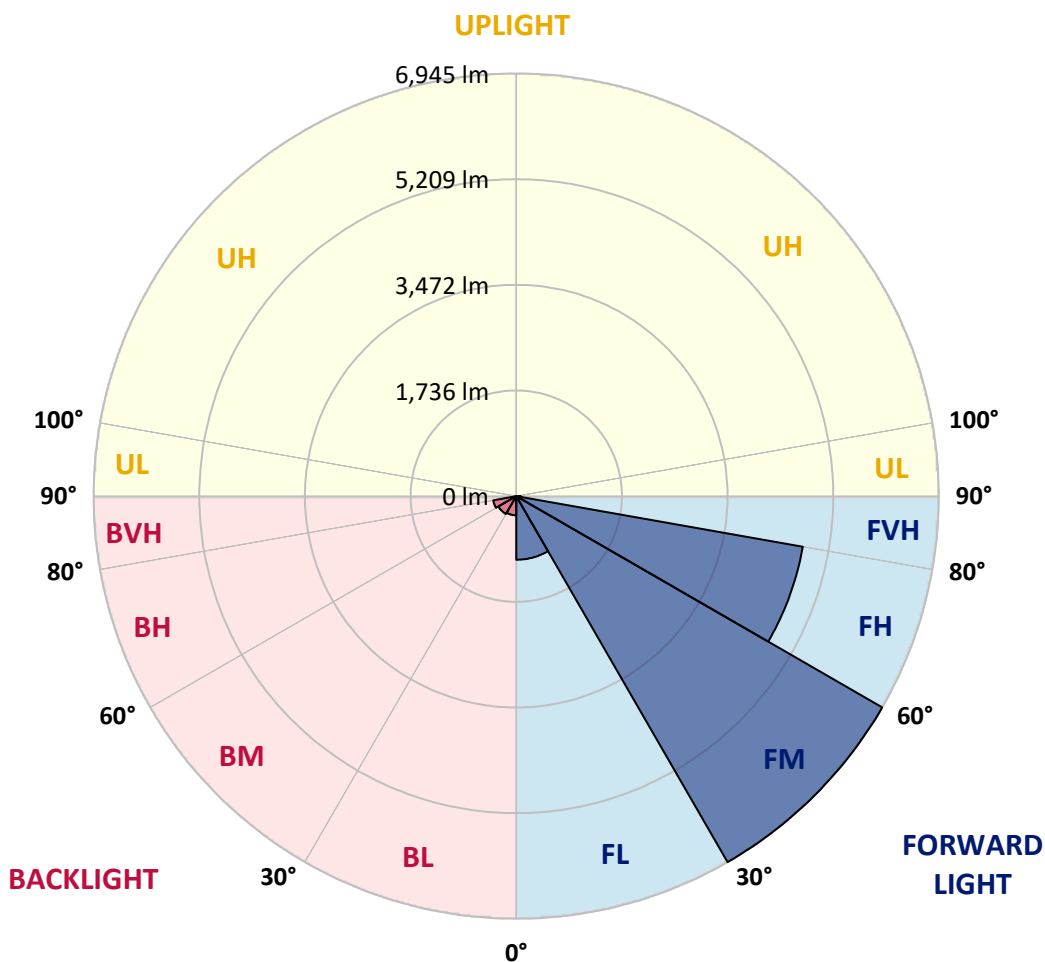
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1045.0	7.5			
FM (30°-60°)	6944.8	50.0			
FH (60°-80°)	4781.6	34.4			G2/5000
FVH (80°-90°)	75.9	0.5			G1/100
BL (0°-30°)	315.4	2.3	B1/500		
BM (30°-60°)	339.0	2.4	B1/1000		
BH (60°-80°)	384.5	2.8	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1
2.5°	1957.2	1955.1	1946.5	1931.5	1912.3	1905.9	1878.0	1839.5	1818.1	1794.5	1783.8
5°	2092.2	2081.4	2107.1	2096.4	2100.7	2049.3	2015.1	1987.2	1905.9	1873.7	1822.3
7.5°	2122.1	2132.8	2130.7	2147.8	2165.0	2184.2	2160.7	2120.0	2038.6	1991.5	1935.8
10°	2122.1	2117.8	2135.0	2158.5	2207.8	2250.6	2314.9	2261.3	2199.2	2143.5	2042.9
12.5°	2083.6	2077.2	2094.3	2143.5	2231.3	2319.1	2389.8	2441.2	2353.4	2308.4	2177.8
15°	1965.8	1959.4	2030.1	2117.8	2233.5	2377.0	2524.7	2608.2	2548.3	2477.6	2332.0
17.5°	1820.2	1828.8	1903.7	2049.3	2233.5	2404.8	2593.2	2775.3	2766.7	2676.8	2524.7
20°	1770.9	1777.4	1852.3	1957.2	2167.1	2424.1	2700.3	2957.3	3008.7	2901.6	2702.5
22.5°	1865.2	1858.7	1865.2	1929.4	2122.1	2406.9	2771.0	3165.0	3257.1	3173.6	2935.9
25°	2186.4	2182.1	2128.6	2030.1	2096.4	2368.4	2807.4	3302.0	3514.0	3437.0	3124.3
27.5°	2657.5	2640.4	2556.8	2351.3	2216.4	2391.9	2867.3	3434.8	3738.9	3651.1	3293.5
30°	3162.9	3122.2	3013.0	2756.0	2526.9	2479.7	2901.6	3533.3	3989.4	3878.1	3441.2
32.5°	3511.9	3565.4	3531.2	3269.9	2918.7	2683.2	2957.3	3657.5	4220.7	4147.9	3693.9
35°	4051.5	4113.6	3970.2	3738.9	3385.6	3006.5	3075.1	3758.2	4576.2	4454.1	3929.5
37.5°	4732.5	4779.6	4676.8	4237.8	3865.2	3404.8	3317.0	3968.0	4882.4	4824.6	4231.4
40°	5075.1	5302.1	5156.5	4760.3	4359.9	3961.6	3717.5	4214.3	5415.6	5368.5	4649.0
42.5°	5548.4	5661.9	5586.9	5293.6	4876.0	4556.9	4212.1	4694.0	6062.3	6062.3	5214.3
45°	6049.5	6053.8	6049.5	5809.6	5439.2	5274.3	4880.3	5295.7	6758.3	6835.4	5891.0
47.5°	6460.6	6589.1	6578.4	6434.9	6148.0	6085.9	5548.4	5980.9	7632.0	7766.9	6550.6
50°	6672.6	6816.1	6858.9	6933.9	6921.0	7051.6	6278.6	6775.4	8385.7	8717.7	7398.6
52.5°	6614.8	6625.5	6888.9	7184.4	7655.5	8021.7	7158.7	7676.9	9268.0	9595.6	8053.8
55°	6141.5	6100.9	6642.6	6981.0	7955.3	8614.9	8377.2	8801.2	9955.4	10454.3	8730.5
57.5°	5103.0	5113.7	5614.8	6302.2	7732.6	8850.4	9679.2	10270.2	10919.0	11422.3	9681.3
60°	3522.6	3509.8	4070.8	4865.3	6424.2	8411.4	10428.6	12173.9	12208.1	12921.2	11388.0
62.5°	1980.8	1985.1	2411.2	3090.0	4494.8	6873.9	10392.2	14195.4	14049.8	14675.0	13328.1
65°	1122.1	1149.9	1443.3	1830.9	2691.7	4614.7	8938.2	15000.5	15469.5	16026.3	14505.9
66°	948.6	967.9	1218.5	1511.8	2147.8	3743.2	8045.3	14844.2	15914.9	16338.9	14482.3
67.5°	734.5	760.2	970.1	1199.2	1576.1	2591.1	6475.6	14066.9	15996.3	16244.7	14073.3
70°	503.2	520.4	681.0	910.1	1077.1	1325.5	3871.7	11630.0	14514.4	14724.3	12231.7
72.5°	353.3	361.9	477.5	689.5	828.7	758.1	1920.8	8274.4	11107.5	11516.5	9514.3
75°	254.8	263.4	327.6	494.7	646.7	496.8	880.1	5285.0	6811.8	7133.0	5730.4
77.5°	184.2	194.9	222.7	319.1	469.0	349.0	432.6	2760.3	3212.1	3156.4	2464.8
80°	111.4	122.1	164.9	205.6	342.6	246.3	237.7	1152.1	1139.2	1081.4	775.2
82.5°	51.4	60.0	87.8	139.2	239.8	171.3	113.5	411.1	359.8	329.8	218.4
85°	15.0	19.3	51.4	104.9	122.1	83.5	68.5	141.3	147.8	126.3	72.8
87.5°	0.0	2.1	23.6	25.7	36.4	27.8	25.7	36.4	68.5	55.7	23.6
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°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1
2.5°	1745.2	1730.3	1693.9	1638.2	1588.9	1563.2	1526.8	1494.7	1477.6	1475.4	1473.3
5°	1788.1	1747.4	1659.6	1558.9	1484.0	1402.6	1346.9	1306.3	1267.7	1231.3	1252.7
7.5°	1845.9	1781.6	1638.2	1507.5	1344.8	1239.9	1141.4	1083.6	1049.3	1017.2	1012.9
10°	1935.8	1854.5	1623.2	1387.6	1201.3	1047.1	946.5	863.0	815.9	760.2	781.6
12.5°	2057.9	1912.3	1567.5	1278.4	1038.6	875.8	732.4	597.5	522.5	464.7	466.8
15°	2180.0	1989.4	1516.1	1145.7	890.8	676.7	466.8	374.7	353.3	340.5	344.8
17.5°	2299.9	2051.5	1436.9	1010.7	721.7	430.4	340.5	321.2	310.5	297.7	297.7
20°	2445.5	2092.2	1338.4	886.5	496.8	319.1	291.2	278.4	261.3	244.1	246.3
22.5°	2586.8	2126.4	1224.9	728.1	334.1	276.2	244.1	227.0	212.0	194.9	194.9
25°	2728.1	2137.1	1077.1	522.5	269.8	220.6	190.6	167.0	152.0	137.0	139.2
27.5°	2824.5	2070.7	937.9	334.1	216.3	167.0	132.8	113.5	100.6	85.7	85.7
30°	2880.2	1948.7	788.0	235.6	162.7	113.5	79.2	60.0	47.1	36.4	34.3
32.5°	2935.9	1850.2	618.9	179.9	107.1	60.0	30.0	10.7	0.0	0.0	0.0
35°	3047.2	1738.8	415.4	100.6	36.4	2.1	0.0	0.0	0.0	0.0	0.0
37.5°	3117.9	1584.6	190.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3295.6	1507.5	47.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3584.7	1454.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3901.6	1432.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4323.5	1490.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4768.9	1646.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5257.1	1794.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5683.3	1972.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6467.0	2391.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7873.9	3216.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9458.6	3828.8	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10038.9	3813.8	40.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9936.1	3604.0	40.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9402.9	3201.4	36.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8075.2	2644.6	36.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6156.5	2060.0	34.3	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3715.3	1096.4	27.8	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1479.7	385.5	21.4	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	400.4	115.6	12.8	8.6	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	104.9	42.8	10.7	8.6	4.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	40.7	17.1	8.6	6.4	6.4	4.3	2.1	0.0	0.0	0.0	0.0
87.5°	12.8	6.4	6.4	4.3	4.3	2.1	2.1	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)