

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: P482098

Luminaire Tested: **IFLD-S-SA3D-750-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482098
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

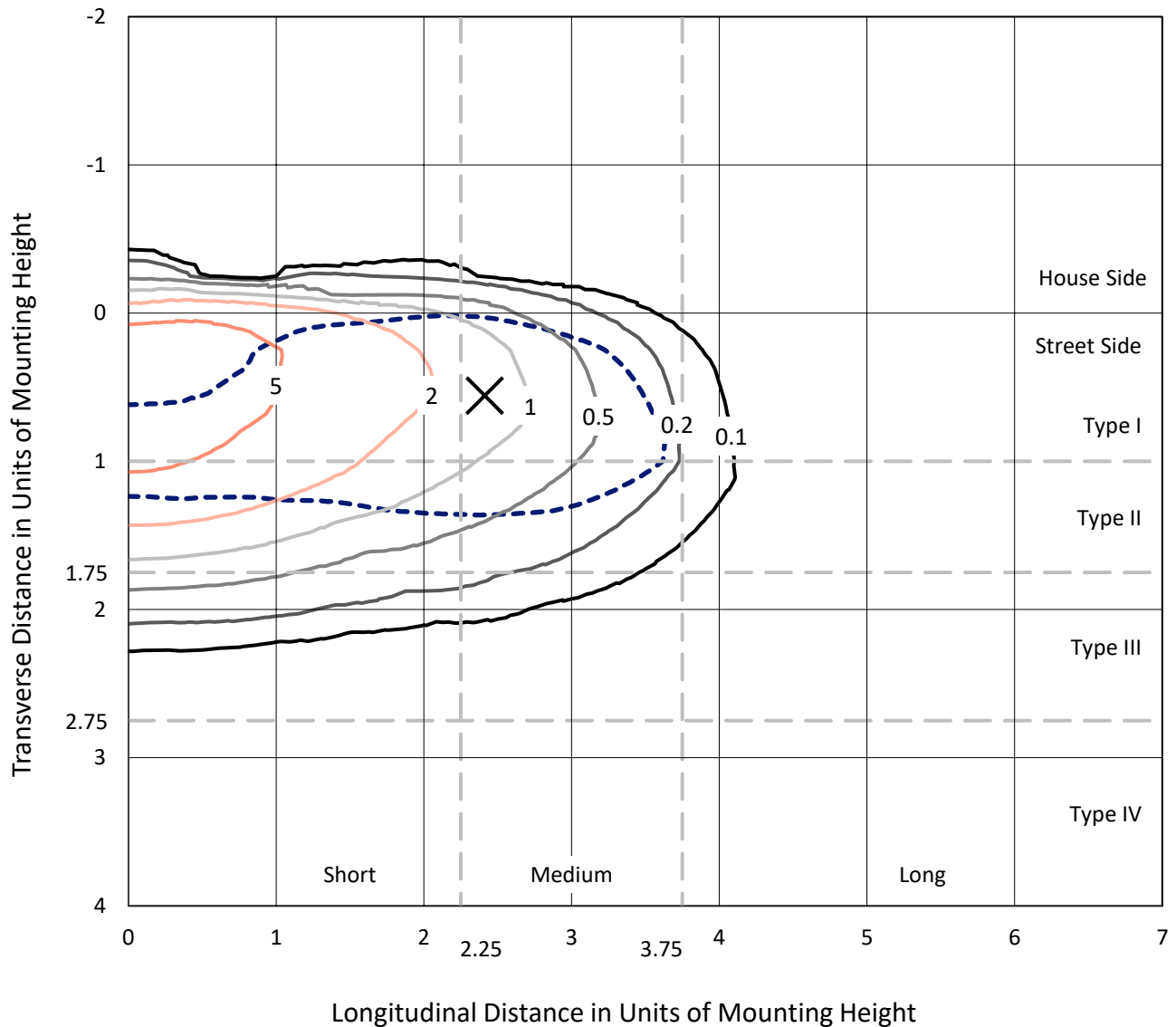
Lumens per Lamp: N/A
Luminaire Lumens: 18743.8 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

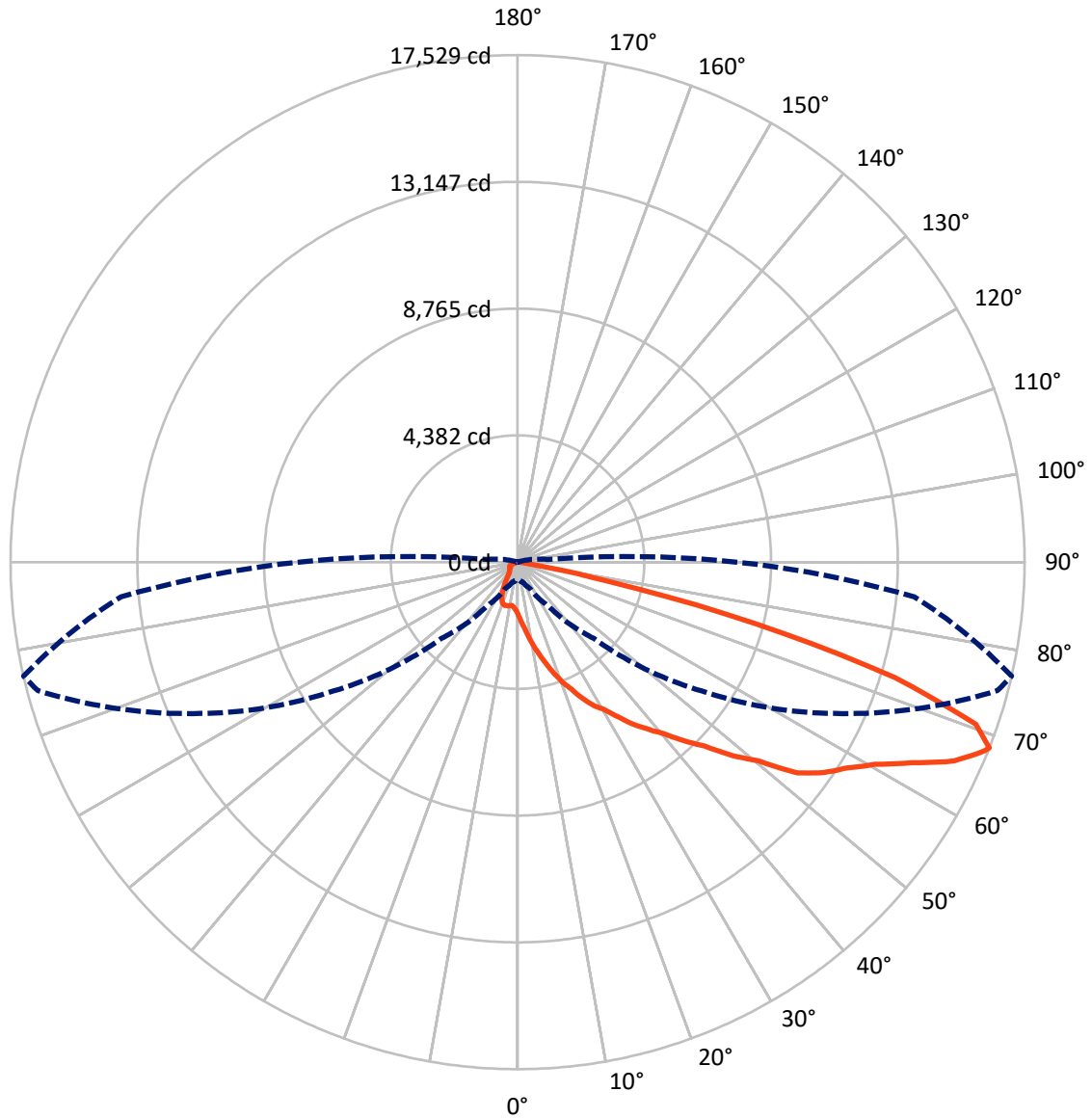
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.0	0.0	850.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17893.8	0.0	17893.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	18743.8	0.0	18743.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.1
10°-20°	773.3	4.1
20°-30°	1498.7	8.0
30°-40°	2612.7	13.9
40°-50°	3826.5	20.4
50°-60°	4495.6	24.0
60°-70°	3796.1	20.3
70°-80°	1471.5	7.9
80°-90°	59.8	0.3
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°	18743.8	100.0
0°-180°	18743.8	100.0

Coefficient of Utilization

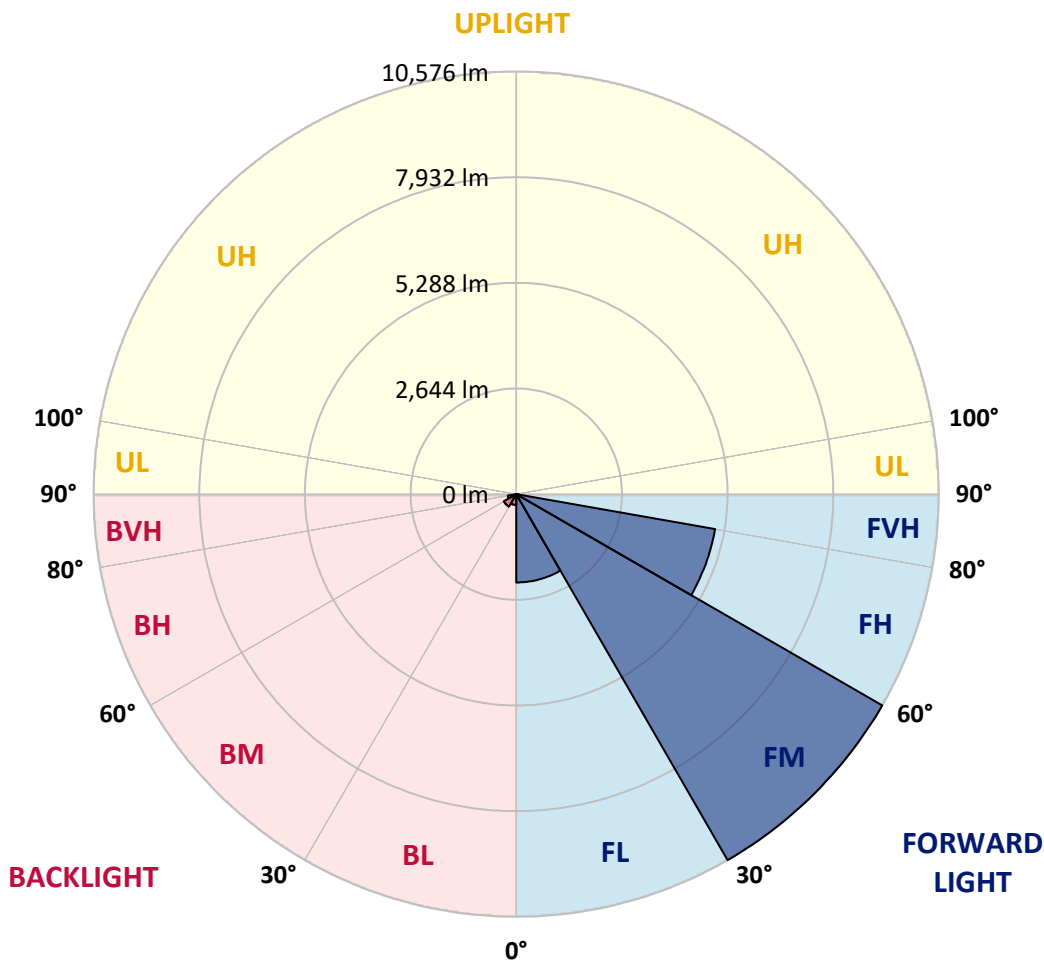


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.1	11.8			
FM (30°-60°)	10575.6	56.4			
FH (60°-80°)	5052.9	27.0			G3/7500
FVH (80°-90°)	55.2	0.3			G1/100
BL (0°-30°)	271.6	1.4	B1/500		
BM (30°-60°)	359.2	1.9	B1/1000		
BH (60°-80°)	214.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7
2.5°	2727.0	2675.3	2621.1	2605.6	2504.9	2391.3	2285.4	2182.1	2009.1	2011.7	1892.9
5°	3514.6	3450.0	3406.1	3395.8	3238.3	3042.0	2881.9	2590.1	2303.5	2238.9	2022.0
7.5°	4162.8	4142.1	4077.6	4023.3	3907.1	3667.0	3478.4	3060.1	2623.7	2551.4	2179.5
10°	4555.3	4586.3	4614.7	4545.0	4454.6	4281.6	4023.3	3571.4	2987.8	2897.4	2383.5
12.5°	4973.6	4922.0	4940.1	4996.9	4878.1	4839.4	4519.1	4098.2	3413.9	3240.9	2641.8
15°	5082.1	5102.8	5146.7	5311.9	5392.0	5280.9	5004.6	4524.3	3855.5	3615.3	2881.9
17.5°	5154.4	5144.1	5198.3	5446.2	5567.6	5673.5	5500.4	4999.5	4240.2	4025.9	3181.5
20°	5244.8	5188.0	5306.8	5464.3	5745.8	5967.8	5960.1	5477.2	4643.1	4415.8	3478.4
22.5°	5580.5	5536.6	5632.1	5647.6	5843.9	6153.8	6228.7	5867.1	5056.3	4777.4	3798.7
25°	6200.3	6280.3	6166.7	6068.6	6128.0	6332.0	6386.2	6213.2	5472.0	5216.4	4118.9
27.5°	7106.7	7096.3	6871.7	6745.1	6603.1	6577.3	6616.0	6536.0	5800.0	5616.6	4382.3
30°	8080.2	7995.0	7788.4	7483.7	7171.2	6977.6	6923.3	6840.7	6184.8	5918.8	4643.1
32.5°	8854.9	8901.4	8671.6	8273.9	7754.8	7494.0	7233.2	7142.8	6608.3	6373.3	4942.6
35°	9567.7	9505.7	9322.3	8986.6	8521.8	8100.9	7692.9	7499.2	7117.0	6884.6	5273.2
37.5°	10094.5	10171.9	9823.3	9503.1	9040.9	8692.2	8292.0	7868.5	7641.2	7331.3	5676.0
40°	10592.9	10471.5	10236.5	9942.1	9513.4	9247.5	8984.1	8323.0	8199.0	7798.7	6130.5
42.5°	10505.1	10512.8	10383.7	10146.1	9836.2	9683.9	9593.5	8875.6	8705.2	8449.5	6574.7
45°	10146.1	10177.1	10221.0	10104.8	10130.6	9978.3	10221.0	9510.9	9343.0	9071.9	7086.0
47.5°	9751.0	9802.7	9792.3	10004.1	10244.2	10295.9	10902.7	10215.8	10143.5	9993.8	7793.6
50°	9095.1	9115.8	9314.6	9699.4	10027.3	10567.0	11414.1	10985.4	11096.4	10802.0	8635.4
52.5°	7974.3	8049.2	8560.5	9110.6	9771.7	10703.9	11760.1	12129.4	12410.9	12108.7	9443.7
55°	6556.6	6659.9	7163.5	8193.8	9162.2	10497.3	12075.1	12733.6	13304.3	12847.3	9934.4
57.5°	5275.8	5286.1	5738.0	6802.0	8297.1	10091.9	12235.2	13028.0	13795.0	13428.3	10533.5
60°	4020.7	3979.4	4384.9	5306.8	6840.7	9095.1	11835.0	13177.8	14407.0	14195.3	11254.0
62.5°	2587.5	2523.0	2964.6	3863.2	5342.9	7434.6	11034.4	13180.4	15362.5	15282.4	12459.9
65°	1280.9	1237.0	1616.6	2368.0	3697.9	5686.4	9893.0	13131.3	16529.7	16581.4	13634.9
67.5°	676.6	692.1	813.4	1200.8	2133.0	4018.2	8173.2	12555.5	17126.3	17415.5	13919.0
68°	622.4	627.5	723.1	999.4	1851.6	3726.4	7765.2	12387.6	17172.7	17529.1	13761.4
70°	506.1	513.9	547.5	627.5	1002.0	2424.8	5991.1	10962.1	16472.9	16798.3	12457.3
72.5°	402.8	426.1	446.7	480.3	588.8	1273.1	3726.4	8542.5	13609.1	13645.2	9696.8
75°	307.3	325.4	366.7	395.1	459.7	699.8	1774.1	5208.6	8929.8	8490.8	5712.2
77.5°	237.6	253.1	271.1	309.9	384.8	472.6	542.3	2210.5	3793.5	3122.1	1614.0
80°	142.0	152.4	211.8	242.7	335.7	320.2	214.3	614.6	769.5	606.9	294.4
82.5°	82.6	90.4	121.4	185.9	235.0	173.0	126.5	191.1	188.5	165.3	98.1
85°	2.6	5.2	67.1	111.0	82.6	46.5	77.5	80.1	67.1	62.0	43.9
87.5°	0.0	2.6	18.1	15.5	18.1	10.3	15.5	20.7	25.8	23.2	18.1
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°	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7
2.5°	1812.8	1756.0	1629.5	1533.9	1430.6	1368.7	1306.7	1267.9	1247.3	1234.4	1244.7
5°	1859.3	1740.5	1536.5	1355.7	1237.0	1156.9	1076.8	1035.5	996.8	976.1	989.0
7.5°	1962.6	1784.4	1446.1	1249.9	1110.4	986.5	885.8	805.7	759.2	717.9	725.6
10°	2089.1	1810.2	1448.7	1187.9	986.5	790.2	648.2	547.5	490.6	454.5	451.9
12.5°	2218.3	1911.0	1459.0	1125.9	834.1	593.9	426.1	351.2	317.6	299.6	299.6
15°	2414.5	2001.3	1433.2	1012.3	632.7	387.4	291.8	266.0	253.1	237.6	240.2
17.5°	2584.9	2145.9	1420.3	841.9	433.8	278.9	242.7	214.3	201.4	185.9	185.9
20°	2814.8	2236.3	1350.6	650.8	299.6	232.4	196.3	170.4	149.8	136.9	139.4
22.5°	3024.0	2306.1	1226.6	444.2	229.8	183.3	144.6	118.8	100.7	85.2	87.8
25°	3251.2	2375.8	1045.9	273.7	162.7	113.6	77.5	56.8	38.7	28.4	28.4
27.5°	3413.9	2396.4	810.9	162.7	98.1	51.6	18.1	2.6	0.0	0.0	0.0
30°	3579.2	2404.2	560.4	87.8	38.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3767.7	2401.6	351.2	46.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	3912.3	2357.7	167.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4131.8	2293.1	51.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4382.3	2176.9	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4606.9	2058.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4862.6	1911.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5311.9	1849.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5898.1	1799.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6259.7	1655.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6448.2	1505.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6727.1	1433.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7140.2	1438.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7785.8	1510.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8142.2	1438.4	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7840.1	1151.7	49.1	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
68°	7579.2	1058.8	49.1	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	6264.8	689.5	46.5	12.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4563.0	382.2	38.7	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2654.7	191.1	28.4	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	692.1	95.5	23.2	12.9	7.7	2.6	0.0	0.0	0.0	0.0	0.0
80°	136.9	62.0	20.7	15.5	10.3	5.2	0.0	0.0	0.0	0.0	0.0
82.5°	64.6	43.9	20.7	15.5	12.9	7.7	2.6	0.0	0.0	0.0	0.0
85°	33.6	20.7	20.7	15.5	15.5	10.3	5.2	0.0	0.0	0.0	0.0
87.5°	15.5	7.7	7.7	7.7	7.7	5.2	2.6	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)