

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: P482091

Luminaire Tested: **IFLD-S-SA2B-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482091
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

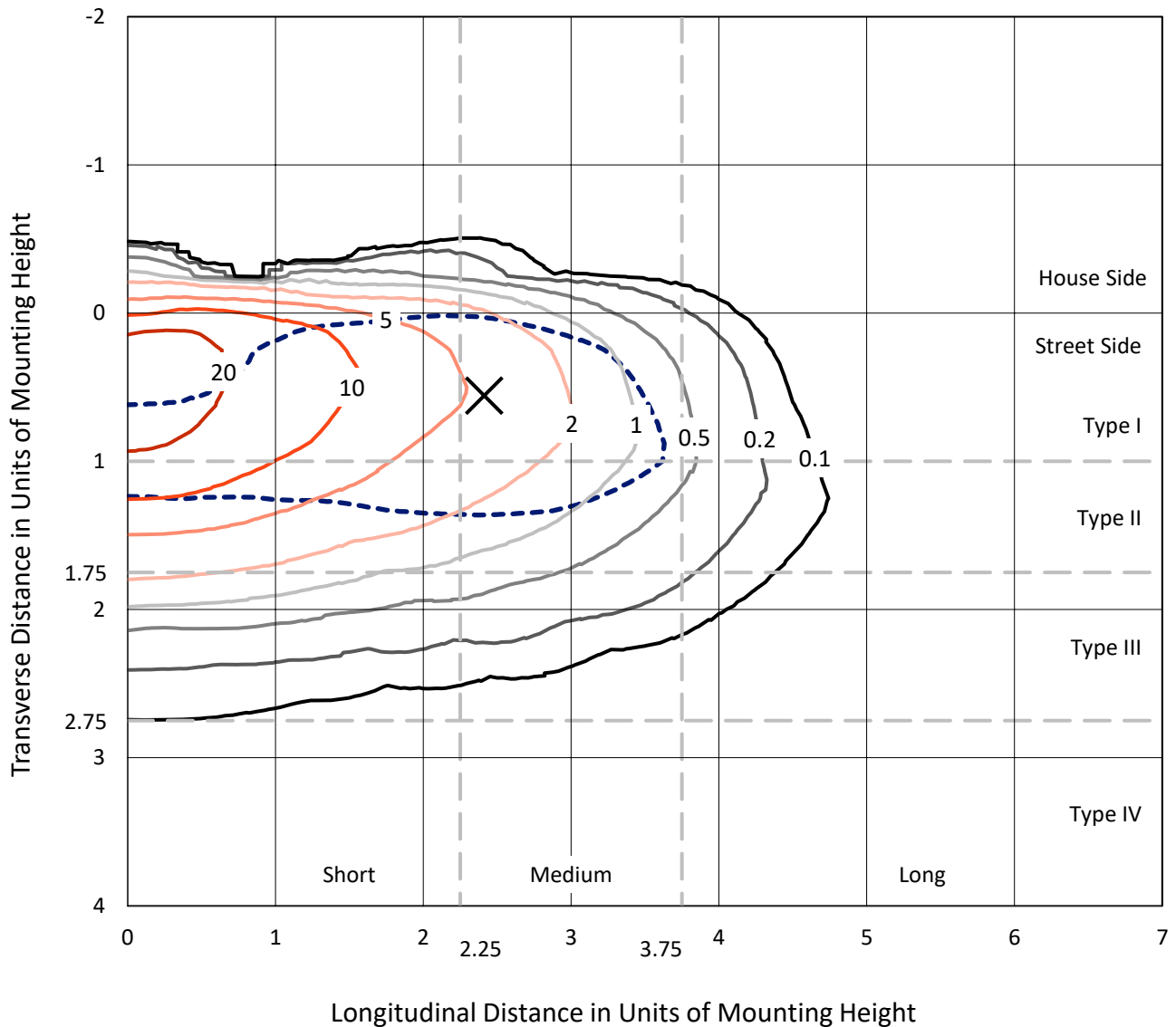
Lumens per Lamp: N/A
Luminaire Lumens: 9182.3 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

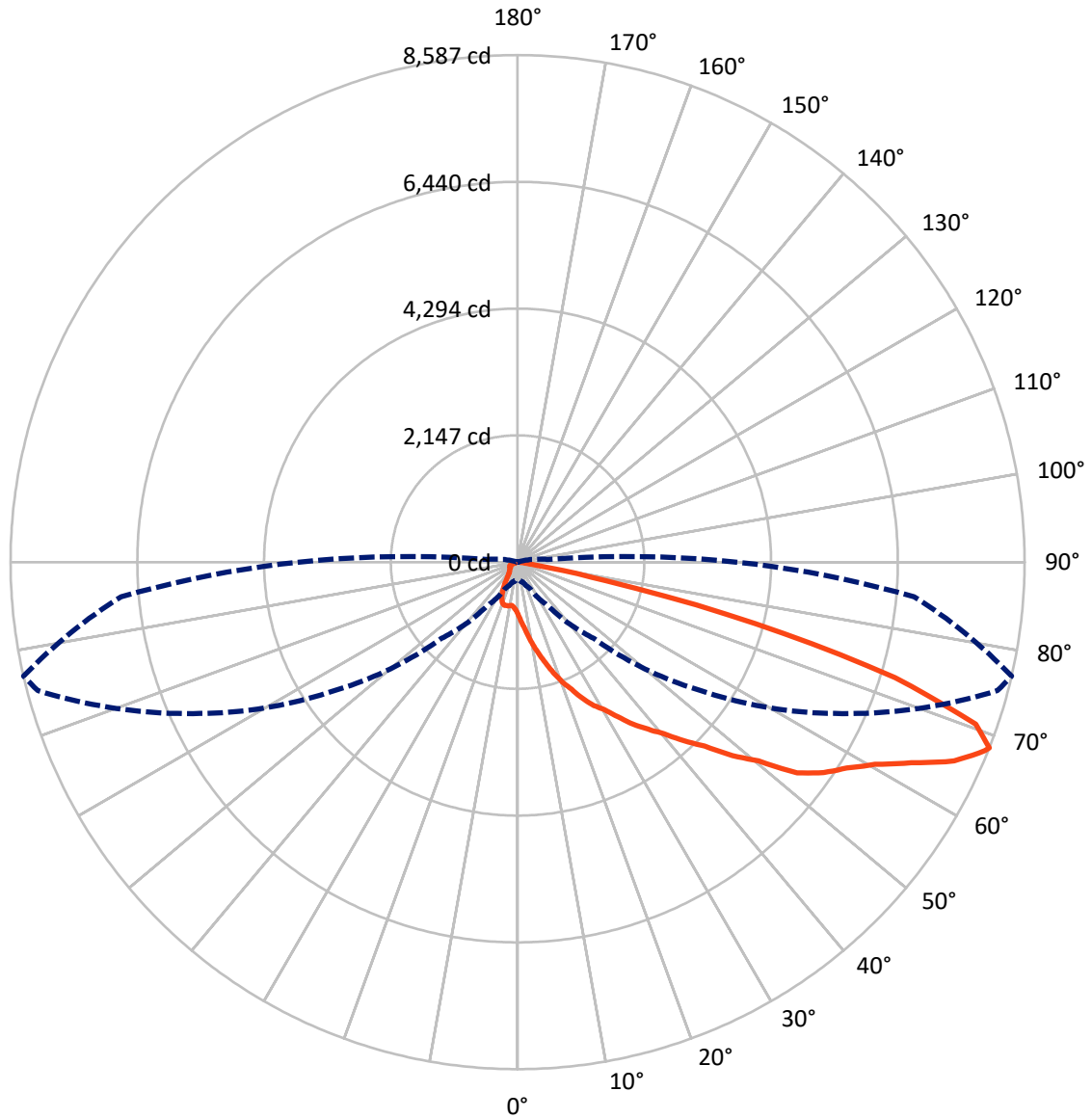
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 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	416.4	0.0	416.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	8765.9	0.0	8765.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	9182.3	0.0	9182.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	1.1
10°-20°	378.8	4.1
20°-30°	734.2	8.0
30°-40°	1279.9	13.9
40°-50°	1874.6	20.4
50°-60°	2202.3	24.0
60°-70°	1859.7	20.3
70°-80°	720.8	7.9
80°-90°	29.3	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°	9182.3	100.0
0°-180°	9182.3	100.0

Coefficient of Utilization



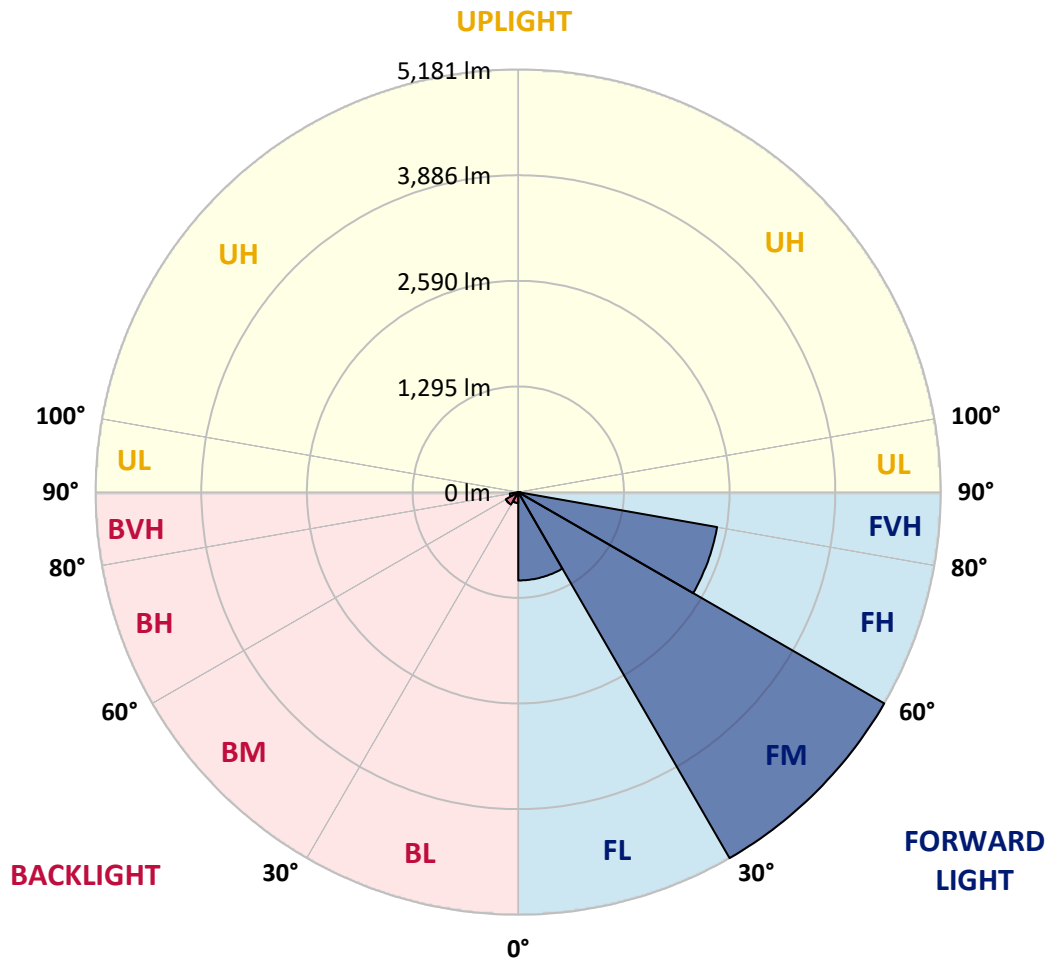
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.7	11.8			
FM (30°-60°)	5180.8	56.4			
FH (60°-80°)	2475.4	27.0			G2/5000
FVH (80°-90°)	27.0	0.3			G1/100
BL (0°-30°)	133.0	1.4	B1/500		
BM (30°-60°)	176.0	1.9	B0/220		
BH (60°-80°)	105.1	1.1	B0/110		G0/110
BVH (80°-90°)	2.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	1335.9	1310.6	1284.0	1276.4	1227.1	1171.4	1119.6	1069.0	984.2	985.5	927.3
5°	1721.8	1690.1	1668.6	1663.6	1586.4	1490.2	1411.8	1268.9	1128.4	1096.8	990.5
7.5°	2039.3	2029.2	1997.5	1971.0	1914.0	1796.4	1704.0	1499.1	1285.3	1249.9	1067.7
10°	2231.6	2246.8	2260.7	2226.5	2182.2	2097.5	1971.0	1749.6	1463.7	1419.4	1167.7
12.5°	2436.5	2411.2	2420.1	2447.9	2389.7	2370.7	2213.9	2007.7	1672.4	1587.7	1294.2
15°	2489.6	2499.8	2521.3	2602.2	2641.5	2587.1	2451.7	2216.4	1888.7	1771.1	1411.8
17.5°	2525.1	2520.0	2546.6	2668.0	2727.5	2779.3	2694.6	2449.2	2077.2	1972.2	1558.6
20°	2569.3	2541.5	2599.7	2676.9	2814.8	2923.6	2919.8	2683.2	2274.6	2163.3	1704.0
22.5°	2733.8	2712.3	2759.1	2766.7	2862.8	3014.6	3051.3	2874.2	2477.0	2340.4	1860.9
25°	3037.4	3076.6	3021.0	2972.9	3002.0	3101.9	3128.5	3043.7	2680.7	2555.4	2017.8
27.5°	3481.5	3476.4	3366.3	3304.3	3234.8	3222.1	3241.1	3201.9	2841.3	2751.5	2146.8
30°	3958.4	3916.6	3815.4	3666.2	3513.1	3418.2	3391.6	3351.2	3029.8	2899.5	2274.6
32.5°	4337.9	4360.7	4248.1	4053.3	3799.0	3671.2	3543.4	3499.2	3237.3	3122.2	2421.3
35°	4687.1	4656.7	4566.9	4402.4	4174.7	3968.5	3768.6	3673.7	3486.5	3372.7	2583.3
37.5°	4945.1	4983.1	4812.3	4655.4	4429.0	4258.2	4062.1	3854.7	3743.3	3591.5	2780.6
40°	5189.3	5129.8	5014.7	4870.5	4660.5	4530.2	4401.2	4077.3	4016.6	3820.5	3003.3
42.5°	5146.3	5150.1	5086.8	4970.4	4818.6	4744.0	4699.7	4348.0	4264.5	4139.3	3220.9
45°	4970.4	4985.6	5007.1	4950.2	4962.8	4888.2	5007.1	4659.2	4577.0	4444.2	3471.3
47.5°	4776.9	4802.2	4797.1	4900.9	5018.5	5043.8	5341.1	5004.6	4969.2	4895.8	3818.0
50°	4455.6	4465.7	4563.1	4751.6	4912.2	5176.6	5591.6	5381.6	5436.0	5291.8	4230.4
52.5°	3906.5	3943.2	4193.7	4463.1	4787.0	5243.7	5761.1	5942.0	6079.9	5931.9	4626.3
55°	3212.0	3262.6	3509.3	4014.0	4488.4	5142.5	5915.4	6238.0	6517.6	6293.7	4866.7
57.5°	2584.5	2589.6	2811.0	3332.2	4064.7	4943.9	5993.9	6382.2	6758.0	6578.3	5160.2
60°	1969.7	1949.5	2148.1	2599.7	3351.2	4455.6	5797.8	6455.6	7057.8	6954.1	5513.1
62.5°	1267.6	1236.0	1452.3	1892.5	2617.4	3642.1	5405.6	6456.9	7525.9	7486.6	6103.9
65°	627.5	606.0	791.9	1160.1	1811.6	2785.7	4846.5	6432.9	8097.7	8123.0	6679.5
67.5°	331.4	339.0	398.5	588.3	1044.9	1968.4	4003.9	6150.7	8389.9	8531.6	6818.7
68°	304.9	307.4	354.2	489.6	907.1	1825.5	3804.0	6068.5	8412.7	8587.3	6741.5
70°	248.0	251.7	268.2	307.4	490.8	1187.9	2934.9	5370.2	8069.8	8229.2	6102.7
72.5°	197.3	208.7	218.9	235.3	288.4	623.7	1825.5	4184.8	6666.9	6684.6	4750.3
75°	150.5	159.4	179.6	193.6	225.2	342.8	869.1	2551.6	4374.6	4159.5	2798.3
77.5°	116.4	124.0	132.8	151.8	188.5	231.5	265.7	1082.9	1858.4	1529.5	790.7
80°	69.6	74.6	103.7	118.9	164.5	156.9	105.0	301.1	377.0	297.3	144.2
82.5°	40.5	44.3	59.5	91.1	115.1	84.8	62.0	93.6	92.3	81.0	48.1
85°	1.3	2.5	32.9	54.4	40.5	22.8	38.0	39.2	32.9	30.4	21.5
87.5°	0.0	1.3	8.9	7.6	8.9	5.1	7.6	10.1	12.7	11.4	8.9
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°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	888.1	860.2	798.3	751.4	700.8	670.5	640.1	621.1	611.0	604.7	609.8
5°	910.8	852.7	752.7	664.2	606.0	566.7	527.5	507.3	488.3	478.2	484.5
7.5°	961.4	874.2	708.4	612.3	544.0	483.3	433.9	394.7	371.9	351.7	355.5
10°	1023.4	886.8	709.7	581.9	483.3	387.1	317.5	268.2	240.4	222.7	221.4
12.5°	1086.7	936.1	714.8	551.6	408.6	291.0	208.7	172.0	155.6	146.7	146.7
15°	1182.8	980.4	702.1	495.9	309.9	189.8	143.0	130.3	124.0	116.4	117.7
17.5°	1266.3	1051.3	695.8	412.4	212.5	136.6	118.9	105.0	98.7	91.1	91.1
20°	1378.9	1095.5	661.6	318.8	146.7	113.9	96.1	83.5	73.4	67.0	68.3
22.5°	1481.4	1129.7	600.9	217.6	112.6	89.8	70.8	58.2	49.3	41.7	43.0
25°	1592.7	1163.9	512.4	134.1	79.7	55.7	38.0	27.8	19.0	13.9	13.9
27.5°	1672.4	1174.0	397.2	79.7	48.1	25.3	8.9	1.3	0.0	0.0	0.0
30°	1753.4	1177.8	274.5	43.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1845.7	1176.5	172.0	22.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	1916.6	1155.0	82.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2024.1	1123.4	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2146.8	1066.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2256.9	1008.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2382.1	936.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2602.2	905.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2889.4	881.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3066.5	810.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3158.9	737.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3295.5	702.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3497.9	704.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3814.2	740.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3988.7	704.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3840.7	564.2	24.0	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	3713.0	518.7	24.0	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3069.0	337.8	22.8	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2235.4	187.2	19.0	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1300.5	93.6	13.9	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	339.0	46.8	11.4	6.3	3.8	1.3	0.0	0.0	0.0	0.0	0.0
80°	67.0	30.4	10.1	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	31.6	21.5	10.1	7.6	6.3	3.8	1.3	0.0	0.0	0.0	0.0
85°	16.4	10.1	10.1	7.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0
87.5°	7.6	3.8	3.8	3.8	3.8	2.5	1.3	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)