

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: P482077

Luminaire Tested: **IFLD-M-SA4B-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482077
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

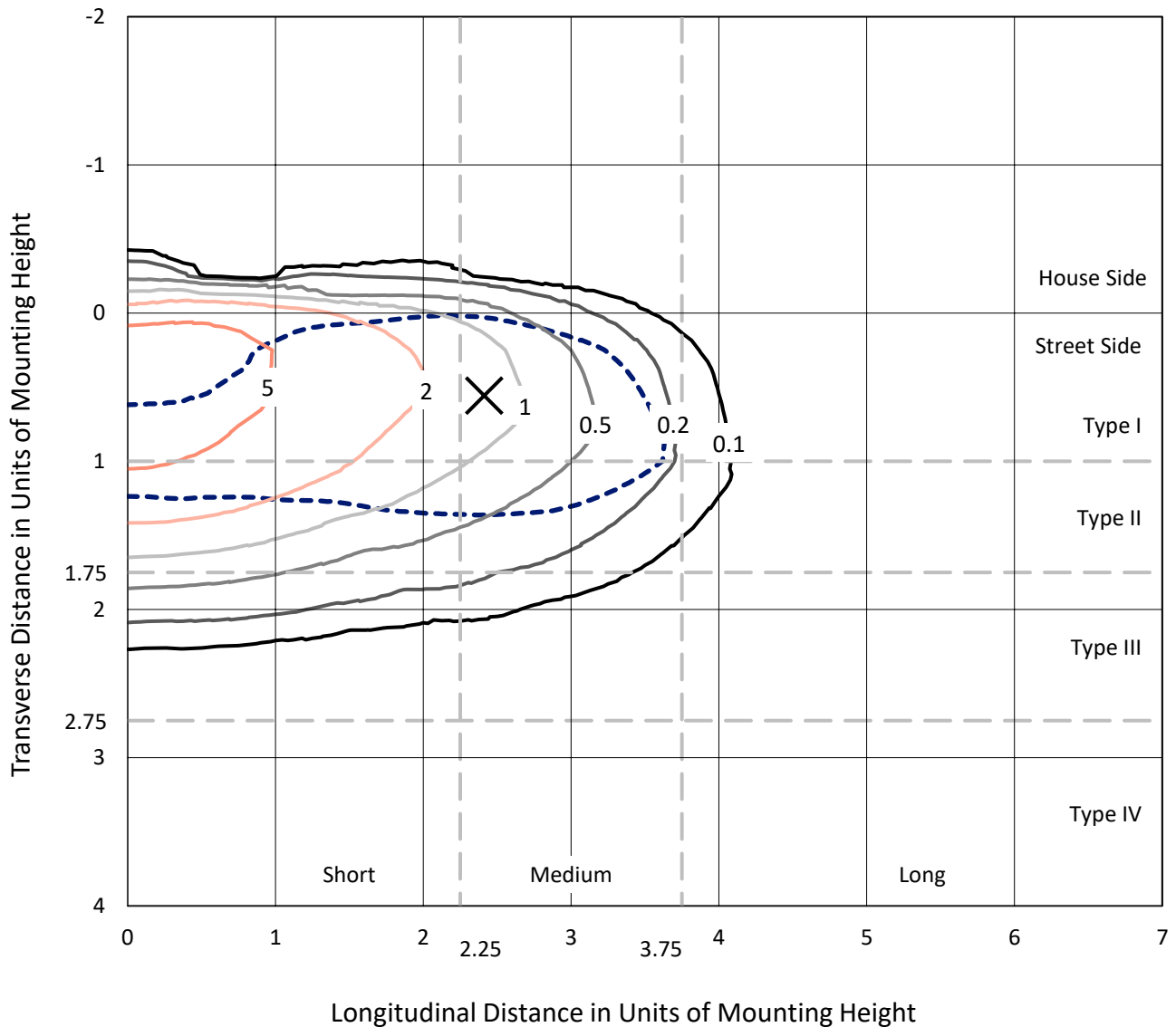
Lumens per Lamp: N/A
Luminaire Lumens: 17956.5 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
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

REPORT NUMBER: P482077
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

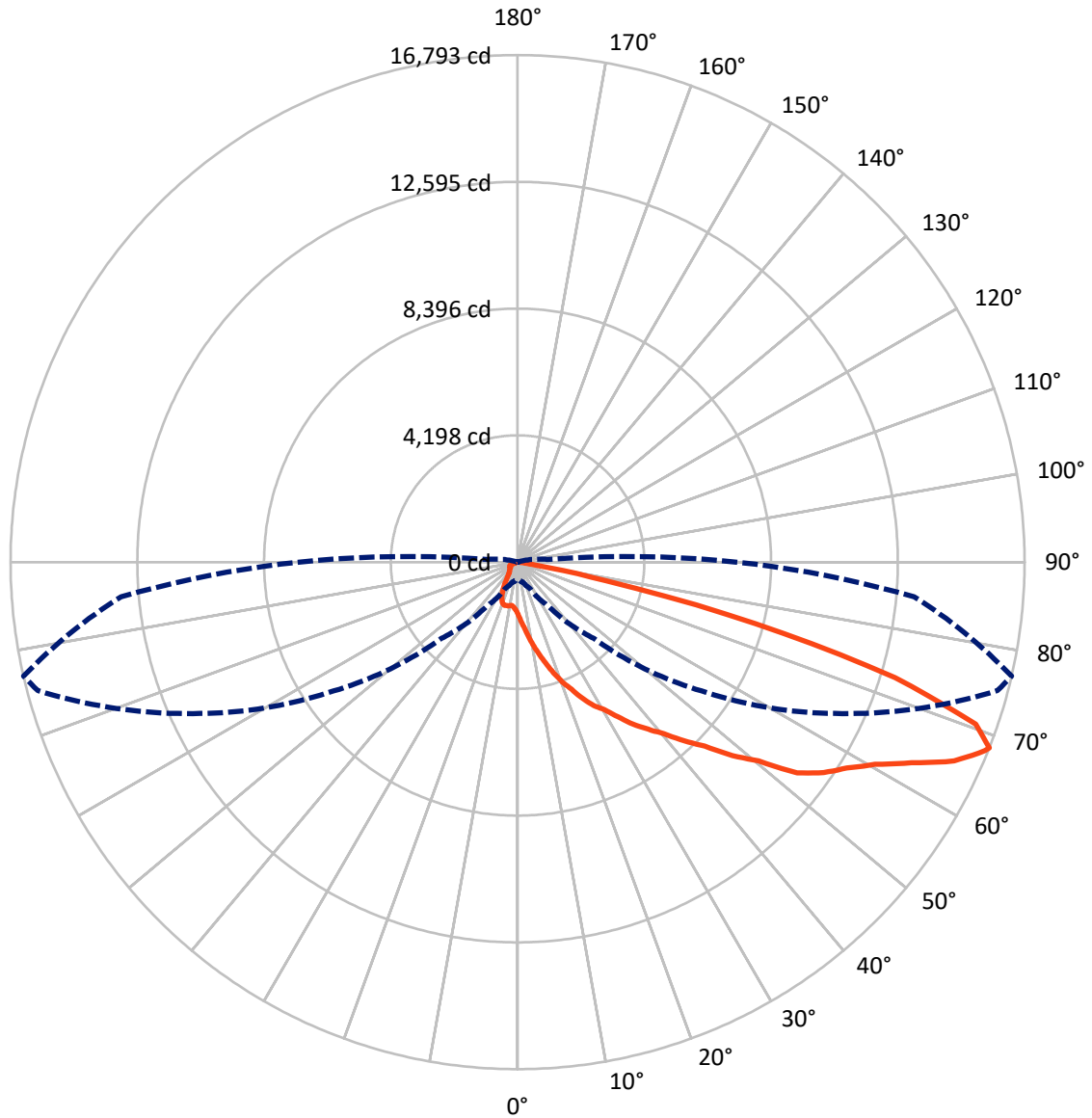
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P482077
CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482077
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.3	0.0	814.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17142.2	0.0	17142.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	17956.5	0.0	17956.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.1
10°-20°	740.8	4.1
20°-30°	1435.7	8.0
30°-40°	2502.9	13.9
40°-50°	3665.8	20.4
50°-60°	4306.7	24.0
60°-70°	3636.7	20.3
70°-80°	1409.7	7.9
80°-90°	57.3	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°	17956.5	100.0
0°-180°	17956.5	100.0

Coefficient of Utilization

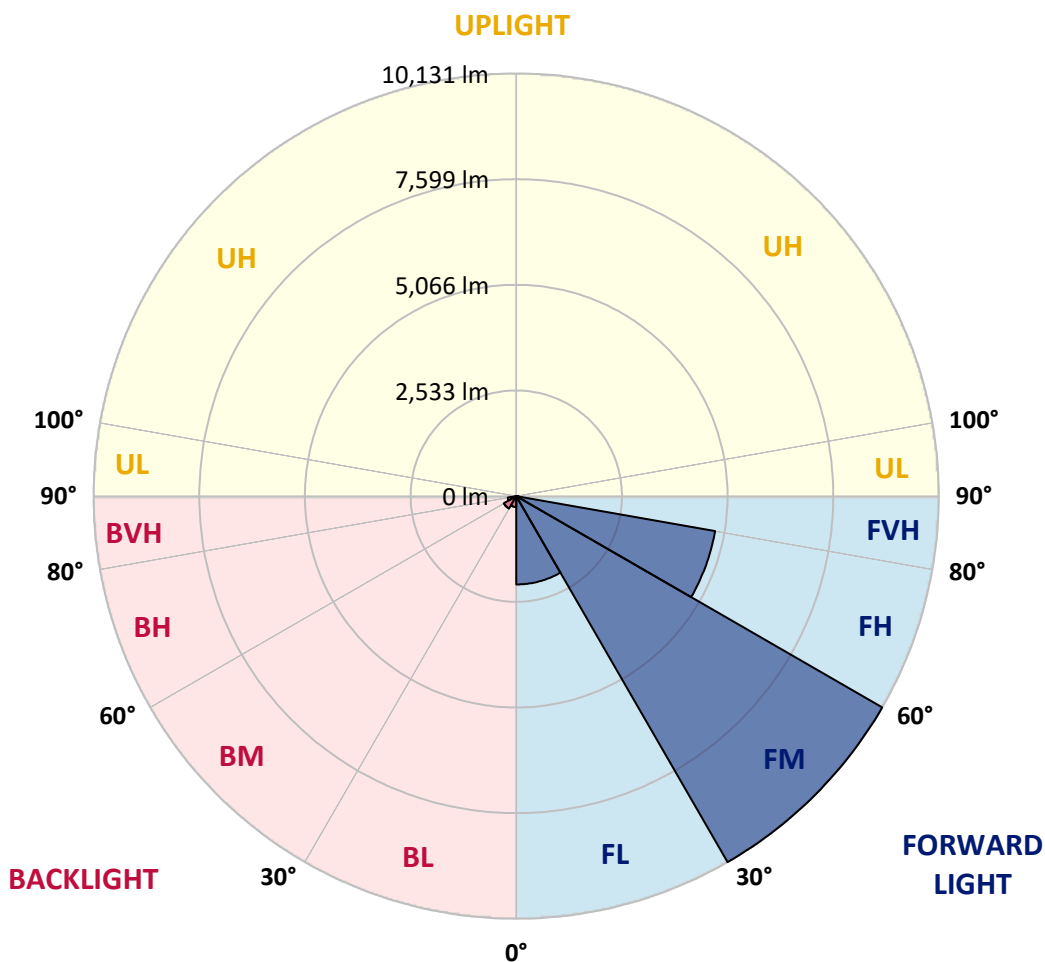


REPORT NUMBER: P482077
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.2	11.8			
FM (30°-60°)	10131.4	56.4			
FH (60°-80°)	4840.7	27.0			G2/5000
FVH (80°-90°)	52.9	0.3			G1/100
BL (0°-30°)	260.2	1.4	B1/500		
BM (30°-60°)	344.1	1.9	B1/1000		
BH (60°-80°)	205.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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 II Medium





REPORT NUMBER: P482077

CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4
2.5°	2612.4	2563.0	2511.0	2496.2	2399.7	2290.8	2189.4	2090.5	1924.7	1927.2	1813.4
5°	3367.0	3305.1	3263.1	3253.2	3102.3	2914.3	2760.9	2481.3	2206.7	2144.9	1937.1
7.5°	3987.9	3968.1	3906.3	3854.3	3743.0	3512.9	3332.4	2931.6	2513.5	2444.2	2088.0
10°	4364.0	4393.7	4420.9	4354.1	4267.5	4101.7	3854.3	3421.4	2862.3	2775.7	2283.4
12.5°	4764.7	4715.3	4732.6	4787.0	4673.2	4636.1	4329.3	3926.1	3270.5	3104.8	2530.8
15°	4868.7	4888.4	4930.5	5088.8	5165.5	5059.1	4794.4	4334.3	3693.5	3463.5	2760.9
17.5°	4937.9	4928.0	4980.0	5217.5	5333.7	5435.2	5269.4	4789.5	4062.2	3856.8	3047.9
20°	5024.5	4970.1	5083.9	5234.8	5504.4	5717.2	5709.8	5247.2	4448.1	4230.4	3332.4
22.5°	5346.1	5304.1	5395.6	5410.4	5598.5	5895.3	5967.1	5620.7	4843.9	4576.7	3639.1
25°	5939.9	6016.5	5907.7	5813.7	5870.6	6066.0	6118.0	5952.2	5242.2	4997.3	3945.9
27.5°	6808.2	6798.3	6583.1	6461.8	6325.8	6301.0	6338.2	6261.5	5556.4	5380.8	4198.2
30°	7740.9	7659.2	7461.3	7169.4	6870.0	6684.5	6632.5	6553.4	5925.0	5670.2	4448.1
32.5°	8483.0	8527.6	8307.4	7926.4	7429.1	7179.3	6929.4	6842.8	6330.7	6105.6	4735.1
35°	9165.8	9106.5	8930.8	8609.2	8163.9	7760.6	7369.8	7184.2	6818.1	6595.4	5051.7
37.5°	9670.5	9744.7	9410.7	9104.0	8661.2	8327.2	7943.7	7538.0	7320.3	7023.4	5437.7
40°	10148.0	10031.7	9806.6	9524.5	9113.9	8859.1	8606.7	7973.4	7854.7	7471.2	5873.1
42.5°	10063.9	10071.3	9947.6	9720.0	9423.1	9277.2	9190.6	8502.8	8339.5	8094.6	6298.6
45°	9720.0	9749.7	9791.7	9680.4	9705.1	9559.2	9791.7	9111.4	8950.6	8690.8	6788.4
47.5°	9341.5	9391.0	9381.1	9583.9	9814.0	9863.5	10444.8	9786.8	9717.5	9574.0	7466.3
50°	8713.1	8732.9	8923.4	9292.0	9606.2	10123.2	10934.7	10524.0	10630.4	10348.4	8272.7
52.5°	7639.4	7711.2	8201.0	8727.9	9361.3	10254.3	11266.2	11619.9	11889.6	11600.2	9047.1
55°	6281.3	6380.2	6862.6	7849.7	8777.4	10056.4	11568.0	12198.8	12745.6	12307.7	9517.1
57.5°	5054.2	5064.1	5497.0	6516.3	7948.7	9668.0	11721.4	12480.9	13215.6	12864.3	10091.1
60°	3851.9	3812.3	4200.7	5083.9	6553.4	8713.1	11337.9	12624.4	13801.9	13599.1	10781.3
62.5°	2478.9	2417.0	2840.0	3701.0	5118.5	7122.4	10571.0	12626.8	14717.3	14640.6	11936.6
65°	1227.1	1185.0	1548.7	2268.6	3542.6	5447.5	9477.5	12579.8	15835.5	15885.0	13062.2
67.5°	648.2	663.0	779.3	1150.4	2043.4	3849.4	7829.9	12028.1	16407.0	16684.0	13334.4
68°	596.2	601.2	692.7	957.4	1773.8	3569.8	7439.0	11867.3	16451.5	16792.9	13183.5
70°	484.9	492.3	524.5	601.2	959.9	2323.0	5739.5	10501.7	15781.1	16092.8	11934.1
72.5°	385.9	408.2	428.0	460.1	564.1	1219.6	3569.8	8183.7	13037.5	13072.1	9289.5
75°	294.4	311.7	351.3	378.5	440.4	670.4	1699.6	4989.9	8554.8	8134.2	5472.3
77.5°	227.6	242.4	259.8	296.9	368.6	452.7	519.5	2117.7	3634.2	2991.0	1546.2
80°	136.1	146.0	202.9	232.5	321.6	306.8	205.3	588.8	737.2	581.4	282.0
82.5°	79.2	86.6	116.3	178.1	225.1	165.8	121.2	183.1	180.6	158.3	94.0
85°	2.5	4.9	64.3	106.4	79.2	44.5	74.2	76.7	64.3	59.4	42.1
87.5°	0.0	2.5	17.3	14.8	17.3	9.9	14.8	19.8	24.7	22.3	17.3
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: P482077

CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4
2.5°	1736.7	1682.3	1561.0	1469.5	1370.5	1311.2	1251.8	1214.7	1194.9	1182.5	1192.4
5°	1781.2	1667.4	1472.0	1298.8	1185.0	1108.3	1031.6	992.0	954.9	935.1	947.5
7.5°	1880.2	1709.5	1385.4	1197.4	1063.8	945.0	848.6	771.9	727.3	687.7	695.2
10°	2001.4	1734.2	1387.9	1138.0	945.0	757.0	621.0	524.5	470.0	435.4	432.9
12.5°	2125.1	1830.7	1397.8	1078.6	799.1	569.0	408.2	336.5	304.3	287.0	287.0
15°	2313.1	1917.3	1373.0	969.8	606.1	371.1	279.6	254.8	242.4	227.6	230.1
17.5°	2476.4	2055.8	1360.6	806.5	415.6	267.2	232.5	205.3	193.0	178.1	178.1
20°	2696.6	2142.4	1293.9	623.4	287.0	222.7	188.0	163.3	143.5	131.1	133.6
22.5°	2896.9	2209.2	1175.1	425.5	220.2	175.6	138.5	113.8	96.5	81.6	84.1
25°	3114.7	2276.0	1001.9	262.2	155.9	108.9	74.2	54.4	37.1	27.2	27.2
27.5°	3270.5	2295.8	776.8	155.9	94.0	49.5	17.3	2.5	0.0	0.0	0.0
30°	3428.8	2303.2	536.8	84.1	37.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3609.4	2300.7	336.5	44.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	3748.0	2258.7	160.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3958.3	2196.8	49.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4198.2	2085.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4413.5	1971.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4658.4	1830.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5088.8	1771.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5650.4	1724.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5996.8	1585.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6177.3	1442.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6444.5	1373.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6840.4	1378.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7458.8	1447.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7800.2	1378.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7510.8	1103.4	47.0	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	7260.9	1014.3	47.0	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	6001.7	660.5	44.5	12.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4371.4	366.1	37.1	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2543.2	183.1	27.2	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	663.0	91.5	22.3	12.4	7.4	2.5	0.0	0.0	0.0	0.0	0.0
80°	131.1	59.4	19.8	14.8	9.9	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	61.8	42.1	19.8	14.8	12.4	7.4	2.5	0.0	0.0	0.0	0.0
85°	32.2	19.8	19.8	14.8	14.8	9.9	4.9	0.0	0.0	0.0	0.0
87.5°	14.8	7.4	7.4	7.4	7.4	4.9	2.5	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)