

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: P482165

Luminaire Tested: **IFLD-L-SA8B-760-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482165
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-760-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

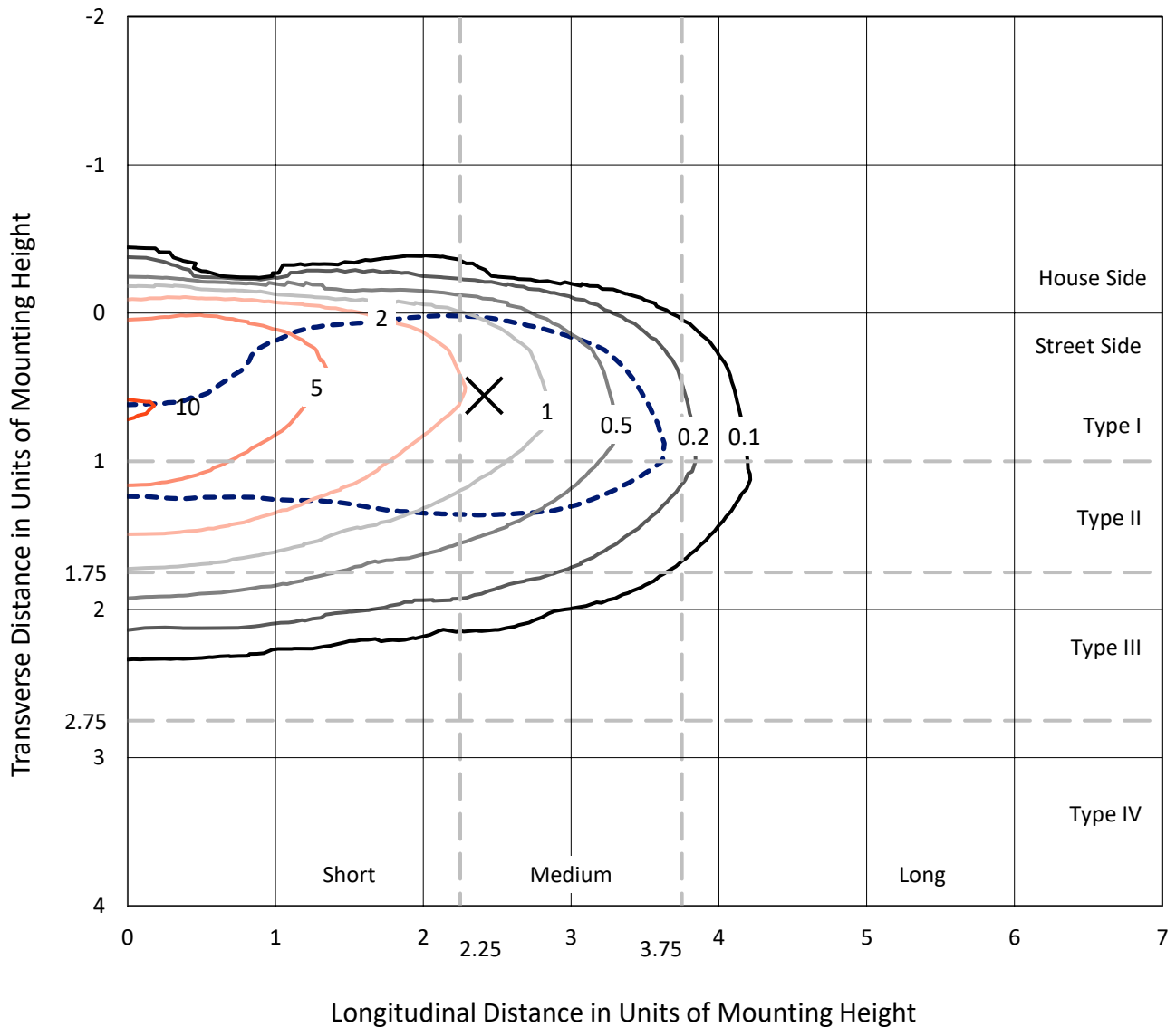
Lumens per Lamp: N/A
Luminaire Lumens: 32730.4 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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: P482165
 CATALOG NUMBER: IFLD-L-SA8B-760-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

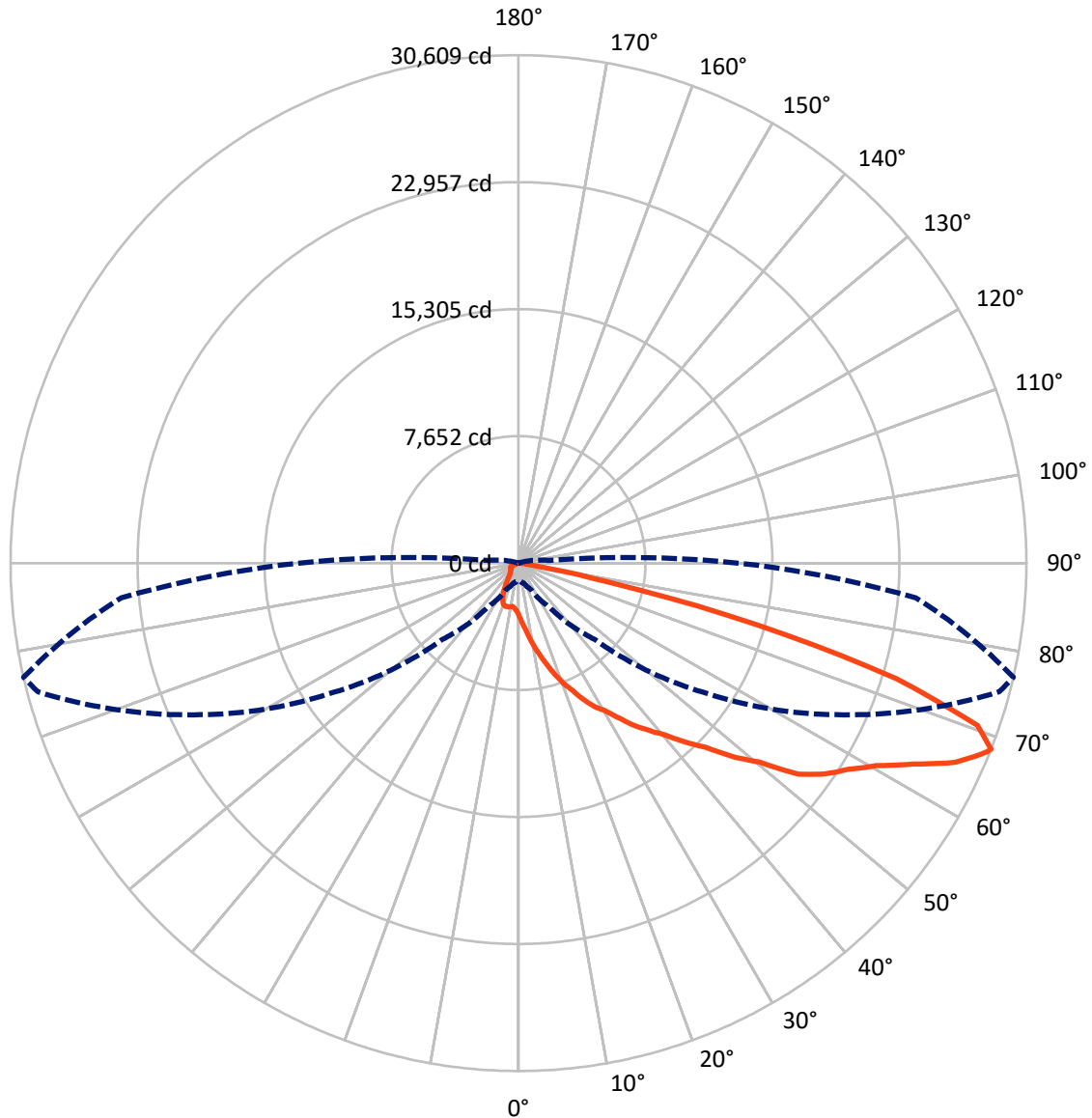
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P482165
CATALOG NUMBER: IFLD-L-SA8B-760-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482165
 CATALOG NUMBER: IFLD-L-SA8B-760-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.3	0.0	1484.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	31246.1	0.0	31246.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	32730.4	0.0	32730.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	1.1
10°-20°	1350.3	4.1
20°-30°	2617.0	8.0
30°-40°	4562.3	13.9
40°-50°	6681.9	20.4
50°-60°	7850.1	24.0
60°-70°	6628.7	20.3
70°-80°	2569.5	7.9
80°-90°	104.5	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°	32730.4	100.0
0°-180°	32730.4	100.0

Coefficient of Utilization



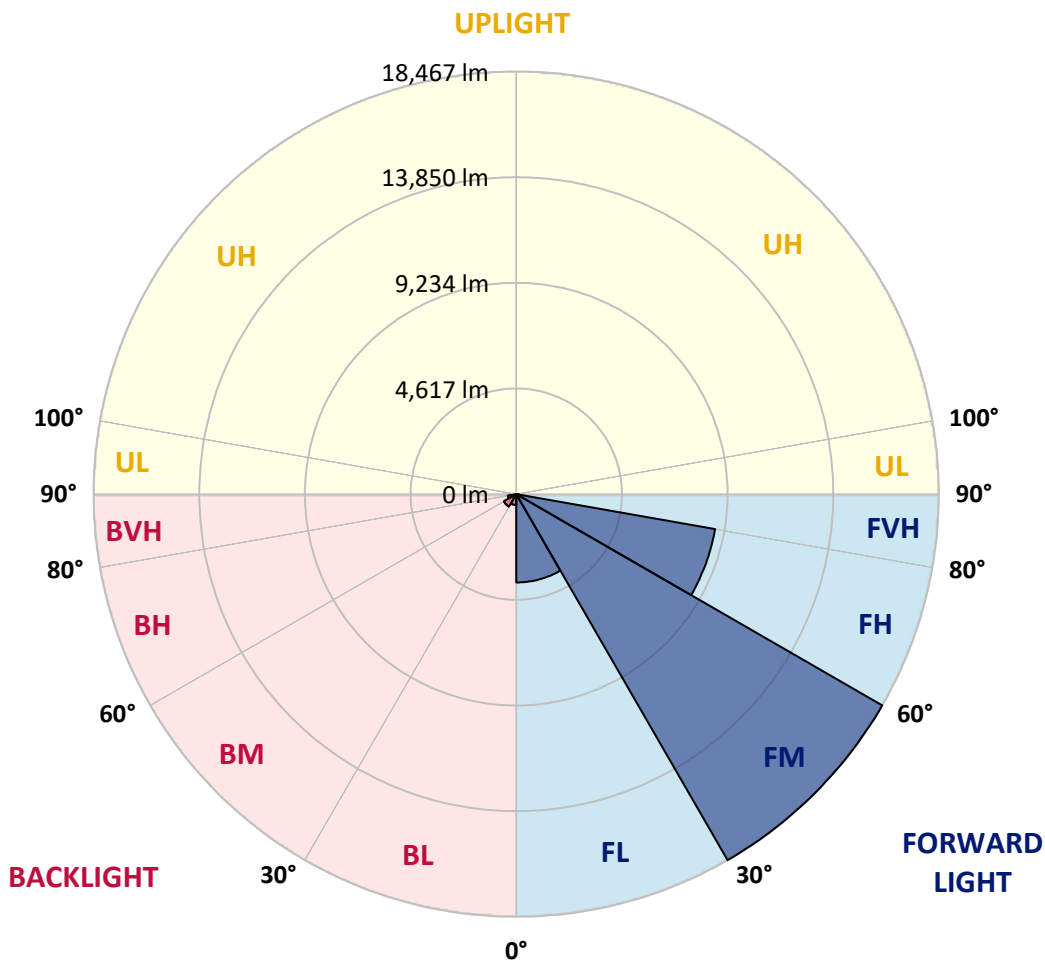
REPORT NUMBER: P482165
 CATALOG NUMBER: IFLD-L-SA8B-760-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3859.2	11.8			
FM	(30°-60°)	18467.1	56.4			
FH	(60°-80°)	8823.4	27.0			G4/12000
FVH	(80°-90°)	96.4	0.3			G1/100
BL	(0°-30°)	474.2	1.4	B1/500		
BM	(30°-60°)	627.2	1.9	B1/1000		
BH	(60°-80°)	374.8	1.1	B1/500		G1/500
BVH	(80°-90°)	8.1	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-G4

Type II Medium





REPORT NUMBER: P482165

CATALOG NUMBER: IFLD-L-SA8B-760-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0
2.5°	4761.8	4671.7	4577.0	4549.9	4374.0	4175.6	3990.8	3810.4	3508.3	3512.8	3305.3
5°	6137.2	6024.5	5947.8	5929.8	5654.7	5312.0	5032.4	4522.9	4022.3	3909.6	3530.8
7.5°	7269.0	7233.0	7120.2	7025.5	6822.6	6403.2	6074.1	5343.6	4581.5	4455.2	3805.9
10°	7954.4	8008.6	8058.2	7936.4	7778.6	7476.5	7025.5	6236.4	5217.3	5059.5	4162.1
12.5°	8685.0	8594.8	8626.3	8725.5	8518.1	8450.5	7891.3	7156.3	5961.3	5659.2	4613.0
15°	8874.4	8910.4	8987.1	9275.7	9415.5	9221.6	8739.1	7900.3	6732.4	6313.1	5032.4
17.5°	9000.6	8982.6	9077.3	9510.2	9722.1	9907.0	9604.9	8730.1	7404.3	7030.0	5555.5
20°	9158.4	9059.2	9266.7	9541.7	10033.2	10421.1	10407.5	9564.3	8107.8	7710.9	6074.1
22.5°	9744.7	9668.0	9834.8	9861.9	10204.6	10745.7	10876.5	10245.2	8829.3	8342.3	6633.2
25°	10826.9	10966.7	10768.3	10596.9	10700.6	11056.9	11151.6	10849.4	9555.3	9108.8	7192.4
27.5°	12409.7	12391.6	11999.3	11778.4	11530.3	11485.3	11552.9	11413.1	10127.9	9807.8	7652.3
30°	14109.7	13960.9	13600.1	13068.0	12522.4	12184.2	12089.5	11945.2	10799.8	10335.4	8107.8
32.5°	15462.5	15543.6	15142.3	14447.9	13541.5	13086.1	12630.6	12472.8	11539.4	11129.0	8630.8
35°	16707.1	16598.8	16278.7	15692.5	14880.8	14145.8	13433.3	13095.1	12427.7	12021.9	9208.0
37.5°	17627.0	17762.2	17153.5	16594.3	15787.1	15178.4	14479.4	13739.9	13343.1	12802.0	9911.5
40°	18497.3	18285.3	17875.0	17360.9	16612.4	16147.9	15687.9	14533.6	14317.1	13618.2	10705.1
42.5°	18343.9	18357.5	18132.0	17717.1	17176.0	16910.0	16752.1	15498.6	15200.9	14754.5	11480.7
45°	17717.1	17771.3	17847.9	17645.0	17690.1	17424.0	17847.9	16607.8	16314.7	15841.3	12373.6
47.5°	17027.2	17117.4	17099.4	17469.1	17888.5	17978.7	19038.4	17838.9	17712.6	17451.1	13609.1
50°	15881.8	15917.9	16265.1	16937.0	17509.7	18452.2	19931.2	19182.7	19376.6	18862.5	15079.2
52.5°	13924.8	14055.6	14948.4	15908.9	17063.3	18691.2	20535.5	21180.3	21671.8	21144.2	16490.6
55°	11449.2	11629.6	12508.9	14308.1	15999.1	18330.4	21085.6	22235.5	23232.0	22433.9	17347.4
57.5°	9212.6	9230.6	10019.7	11877.6	14488.5	17622.4	21365.2	22749.5	24088.8	23448.5	18393.5
60°	7021.0	6948.9	7656.8	9266.7	11945.2	15881.8	20666.2	23011.1	25157.5	24787.8	19651.6
62.5°	4518.3	4405.6	5176.7	6746.0	9329.8	12982.3	19268.3	23015.6	26826.0	26686.2	21757.5
65°	2236.6	2160.0	2822.8	4135.1	6457.4	9929.5	17275.2	22929.9	28864.2	28954.4	23809.2
67.5°	1181.4	1208.5	1420.4	2096.8	3724.7	7016.5	14272.0	21924.3	29905.8	30410.9	24305.3
68°	1086.7	1095.8	1262.6	1745.1	3233.2	6507.0	13559.5	21631.2	29987.0	30609.3	24030.2
70°	883.8	897.4	956.0	1095.8	1749.6	4234.3	10461.6	19142.1	28765.0	29333.2	21753.0
72.5°	703.5	744.0	780.1	838.7	1028.1	2223.1	6507.0	14916.8	23764.1	23827.3	16932.5
75°	536.6	568.2	640.3	689.9	802.7	1222.0	3097.9	9095.3	15593.2	14826.7	9974.6
77.5°	414.9	441.9	473.5	541.1	671.9	825.2	947.0	3860.0	6624.2	5451.8	2818.3
80°	248.0	266.1	369.8	423.9	586.2	559.2	374.3	1073.2	1343.8	1059.7	514.1
82.5°	144.3	157.8	211.9	324.7	410.3	302.1	221.0	333.7	329.2	288.6	171.4
85°	4.5	9.0	117.2	193.9	144.3	81.2	135.3	139.8	117.2	108.2	76.7
87.5°	0.0	4.5	31.6	27.1	31.6	18.0	27.1	36.1	45.1	40.6	31.6
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: P482165

CATALOG NUMBER: IFLD-L-SA8B-760-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0
2.5°	3165.5	3066.3	2845.4	2678.5	2498.2	2389.9	2281.7	2214.1	2178.0	2155.5	2173.5
5°	3246.7	3039.3	2683.0	2367.4	2160.0	2020.2	1880.4	1808.2	1740.6	1704.5	1727.1
7.5°	3427.1	3115.9	2525.2	2182.5	1939.0	1722.6	1546.7	1406.9	1325.7	1253.6	1267.1
10°	3648.0	3161.0	2529.7	2074.3	1722.6	1379.9	1131.8	956.0	856.8	793.6	789.1
12.5°	3873.5	3336.9	2547.8	1966.1	1456.5	1037.1	744.0	613.3	554.6	523.1	523.1
15°	4216.2	3494.7	2502.7	1767.7	1104.8	676.4	509.6	464.5	441.9	414.9	419.4
17.5°	4513.8	3747.2	2480.1	1470.0	757.6	487.0	423.9	374.3	351.7	324.7	324.7
20°	4915.2	3905.1	2358.4	1136.3	523.1	405.8	342.7	297.6	261.5	239.0	243.5
22.5°	5280.4	4026.8	2141.9	775.6	401.3	320.2	252.5	207.4	175.9	148.8	153.3
25°	5677.2	4148.6	1826.3	478.0	284.1	198.4	135.3	99.2	67.6	49.6	49.6
27.5°	5961.3	4184.7	1415.9	284.1	171.4	90.2	31.6	4.5	0.0	0.0	0.0
30°	6249.9	4198.2	978.5	153.3	67.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6579.1	4193.7	613.3	81.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	6831.6	4117.0	293.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7214.9	4004.3	90.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7652.3	3801.4	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8044.6	3593.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8491.1	3336.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9275.7	3228.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10299.3	3143.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10930.6	2890.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11259.8	2628.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11746.8	2502.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12468.3	2511.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13595.6	2638.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14217.9	2511.7	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13690.3	2011.2	85.7	22.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	13234.9	1848.8	85.7	22.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	10939.6	1204.0	81.2	22.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7968.0	667.4	67.6	18.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4635.6	333.7	49.6	18.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1208.5	166.8	40.6	22.5	13.5	4.5	0.0	0.0	0.0	0.0	0.0
80°	239.0	108.2	36.1	27.1	18.0	9.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.7	76.7	36.1	27.1	22.5	13.5	4.5	0.0	0.0	0.0	0.0
85°	58.6	36.1	36.1	27.1	27.1	18.0	9.0	0.0	0.0	0.0	0.0
87.5°	27.1	13.5	13.5	13.5	13.5	9.0	4.5	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)