

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: P482011

Luminaire Tested: **IFLD-L-SA8D-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482011
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

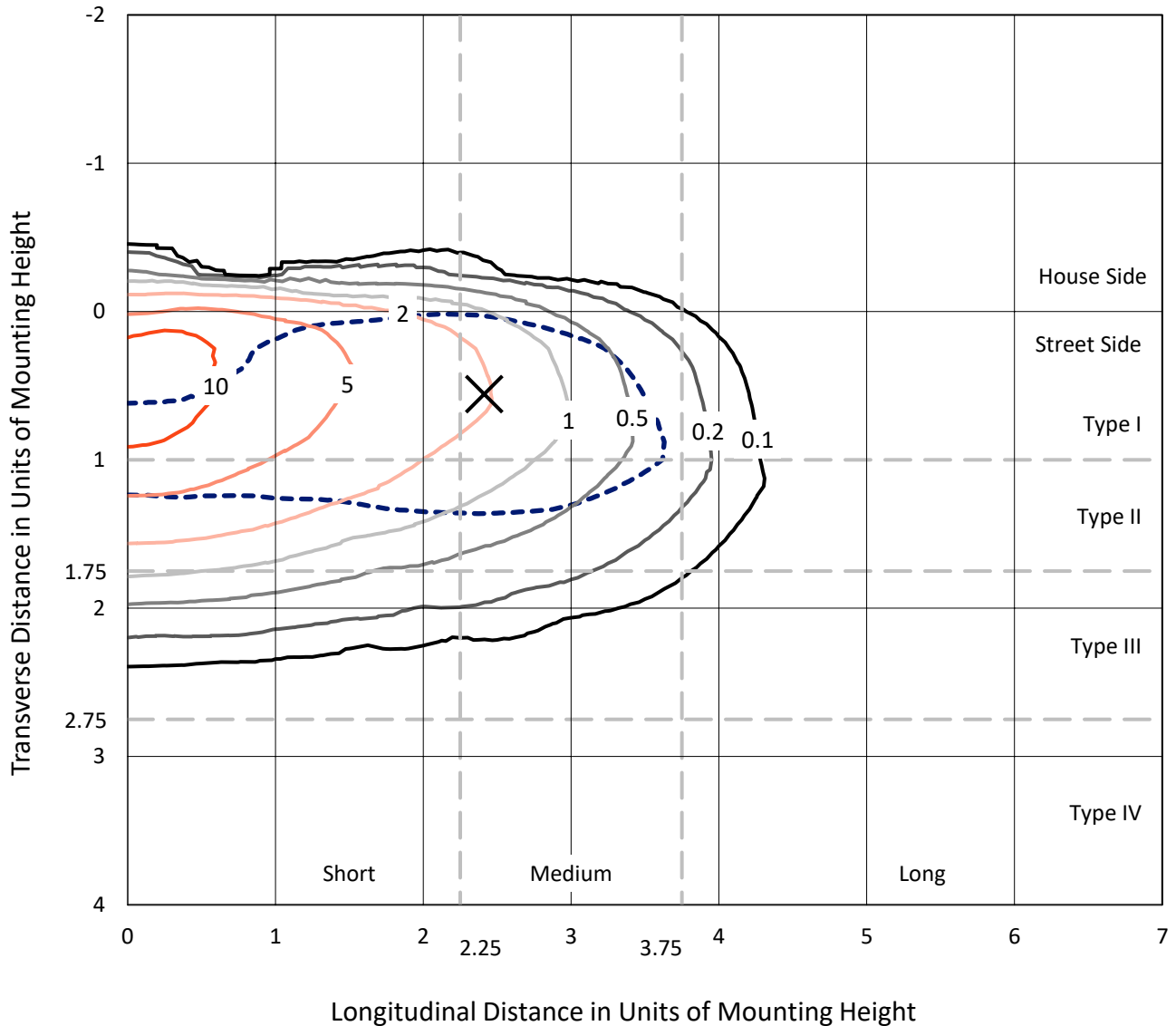
Lumens per Lamp: N/A
Luminaire Lumens: 39910.9 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3
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

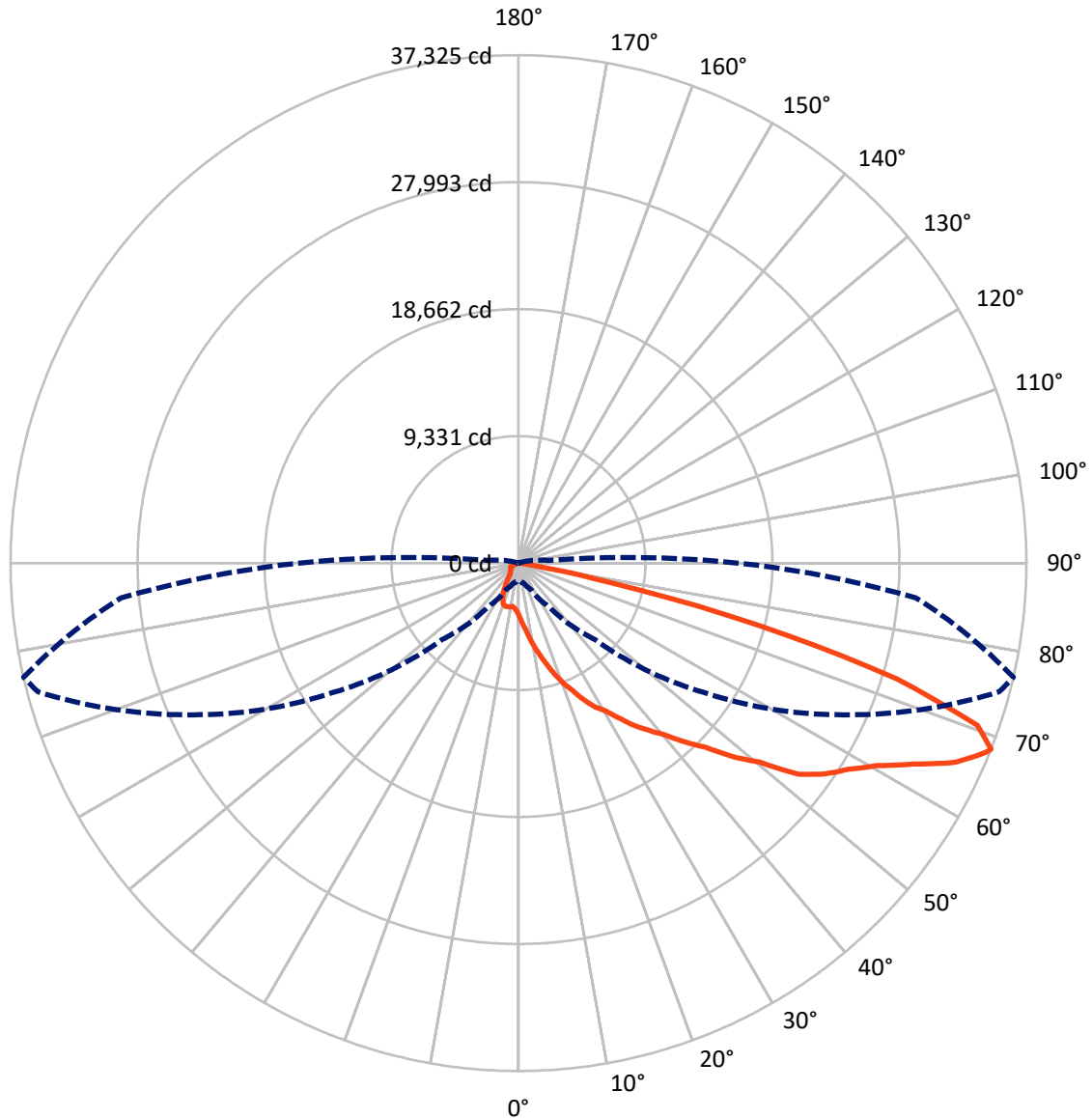
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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	1809.9	0.0	1809.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	38101.0	0.0	38101.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	39910.9	0.0	39910.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.5	1.1
10°-20°	1646.6	4.1
20°-30°	3191.1	8.0
30°-40°	5563.1	13.9
40°-50°	8147.8	20.4
50°-60°	9572.3	24.0
60°-70°	8083.0	20.3
70°-80°	3133.2	7.9
80°-90°	127.4	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°	39910.9	100.0
0°-180°	39910.9	100.0

Coefficient of Utilization



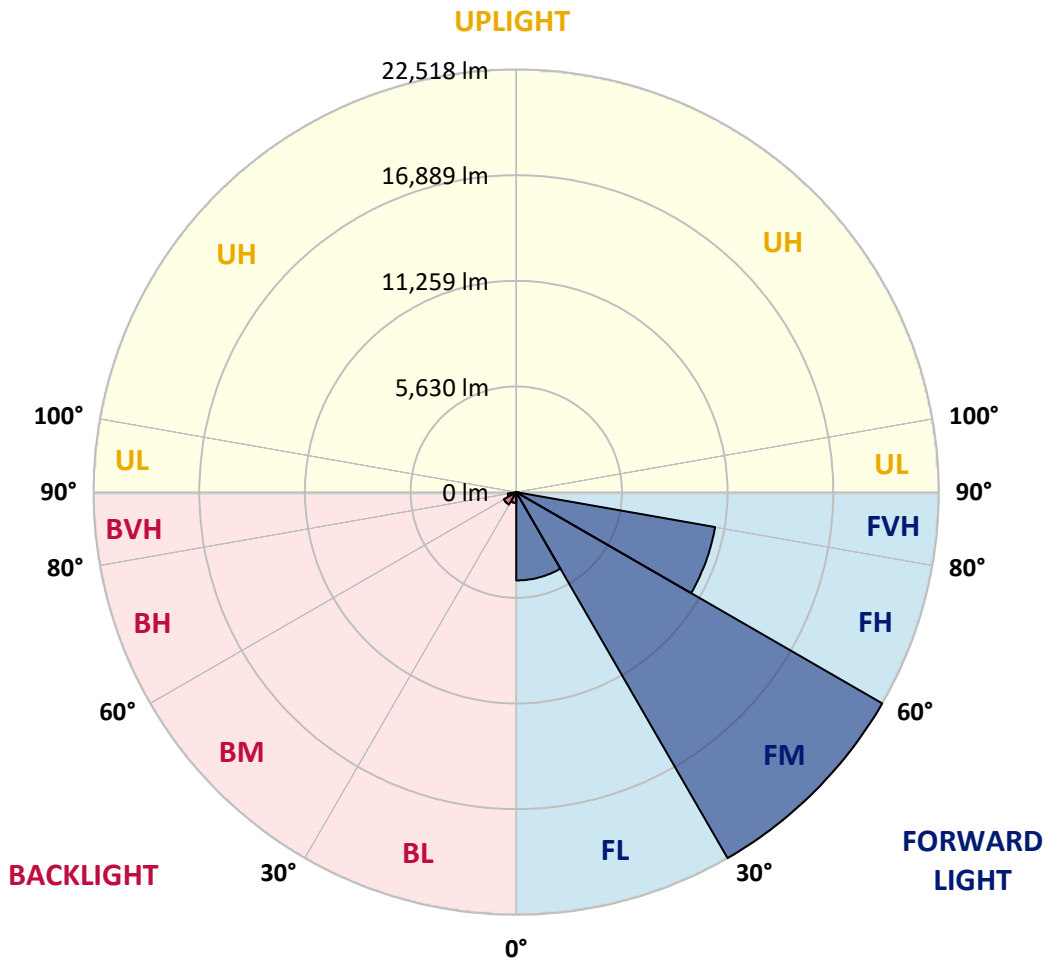
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4705.8	11.8			
FM	(30°-60°)	22518.4	56.4			
FH	(60°-80°)	10759.2	27.0			G4/12000
FVH	(80°-90°)	117.5	0.3			G2/225
BL	(0°-30°)	578.3	1.4	B2/1000		
BM	(30°-60°)	764.8	1.9	B1/1000		
BH	(60°-80°)	457.0	1.1	B1/500		G1/500
BVH	(80°-90°)	9.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5
2.5°	5806.5	5696.6	5581.1	5548.1	5333.6	5091.7	4866.3	4646.3	4277.9	4283.4	4030.5
5°	7483.6	7346.1	7252.7	7230.7	6895.2	6477.4	6136.4	5515.1	4904.8	4767.3	4305.4
7.5°	8863.7	8819.8	8682.3	8566.8	8319.4	7808.0	7406.6	6515.8	5586.6	5432.6	4640.8
10°	9699.5	9765.5	9826.0	9677.5	9485.1	9116.7	8566.8	7604.6	6361.9	6169.4	5075.2
12.5°	10590.3	10480.3	10518.8	10639.8	10386.9	10304.4	9622.6	8726.3	7269.2	6900.7	5625.1
15°	10821.2	10865.2	10958.7	11310.6	11481.1	11244.6	10656.3	9633.5	8209.4	7698.0	6136.4
17.5°	10975.2	10953.2	11068.7	11596.6	11855.0	12080.4	11712.0	10645.3	9028.7	8572.3	6774.3
20°	11167.7	11046.7	11299.6	11635.0	12234.4	12707.3	12690.8	11662.5	9886.5	9402.6	7406.6
22.5°	11882.5	11789.0	11992.4	12025.4	12443.3	13103.2	13262.6	12492.8	10766.3	10172.4	8088.4
25°	13202.1	13372.6	13130.7	12921.7	13048.2	13482.6	13598.0	13229.6	11651.5	11107.2	8770.3
27.5°	15132.2	15110.2	14631.8	14362.3	14059.9	14004.9	14087.4	13917.0	12349.9	11959.5	9331.1
30°	17205.1	17023.7	16583.8	15934.9	15269.6	14857.2	14741.8	14565.8	13169.2	12602.8	9886.5
32.5°	18854.7	18953.7	18464.3	17617.5	16512.3	15956.9	15401.6	15209.1	14070.9	13570.5	10524.3
35°	20372.3	20240.4	19850.0	19135.1	18145.4	17249.1	16380.3	15967.9	15154.1	14659.3	11228.1
37.5°	21494.0	21659.0	20916.7	20234.9	19250.6	18508.3	17656.0	16754.2	16270.4	15610.5	12085.9
40°	22555.3	22296.8	21796.5	21169.6	20256.8	19690.5	19129.6	17722.0	17458.1	16605.8	13053.7
42.5°	22368.3	22384.8	22109.9	21604.0	20944.2	20619.8	20427.3	18898.7	18535.8	17991.4	13999.4
45°	21604.0	21670.0	21763.5	21516.0	21571.0	21246.6	21763.5	20251.3	19893.9	19316.6	15088.2
47.5°	20762.7	20872.7	20850.7	21301.6	21813.0	21922.9	23215.1	21752.5	21598.5	21279.6	16594.8
50°	19366.1	19410.1	19833.5	20652.7	21351.1	22500.3	24303.8	23391.1	23627.5	23000.6	18387.3
52.5°	16979.7	17139.1	18227.9	19399.1	20806.7	22791.7	25040.6	25826.9	26426.3	25782.9	20108.4
55°	13960.9	14180.9	15253.1	17447.1	19509.0	22351.8	25711.5	27113.6	28328.8	27355.5	21153.1
57.5°	11233.6	11255.6	12217.9	14483.3	17667.0	21488.5	26052.4	27740.4	29373.5	28592.7	22428.8
60°	8561.3	8473.3	9336.6	11299.6	14565.8	19366.1	25200.1	28059.4	30676.7	30225.8	23962.9
62.5°	5509.6	5372.1	6312.4	8225.9	11376.6	15830.5	23495.5	28064.9	32711.2	32540.7	26530.8
65°	2727.3	2633.8	3442.1	5042.2	7874.0	12107.9	21065.1	27960.4	35196.5	35306.5	29032.6
67.5°	1440.6	1473.6	1732.1	2556.8	4541.8	8555.8	17403.1	26734.2	36466.7	37082.6	29637.5
68°	1325.2	1336.2	1539.6	2128.0	3942.5	7934.5	16534.3	26376.8	36565.7	37324.5	29302.0
70°	1077.7	1094.2	1165.7	1336.2	2133.5	5163.2	12756.8	23341.6	35075.6	35768.4	26525.3
72.5°	857.8	907.3	951.3	1022.7	1253.7	2710.8	7934.5	18189.4	28977.6	29054.6	20647.2
75°	654.3	692.8	780.8	841.3	978.8	1490.1	3777.5	11090.7	19014.2	18079.4	12162.9
77.5°	505.9	538.9	577.4	659.8	819.3	1006.2	1154.7	4706.8	8077.4	6647.8	3436.6
80°	302.4	324.4	450.9	516.9	714.8	681.8	456.4	1308.7	1638.6	1292.2	626.8
82.5°	176.0	192.5	258.4	395.9	500.4	368.4	269.4	406.9	401.4	351.9	208.9
85°	5.5	11.0	143.0	236.4	176.0	99.0	165.0	170.5	143.0	132.0	93.5
87.5°	0.0	5.5	38.5	33.0	38.5	22.0	33.0	44.0	55.0	49.5	38.5
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°	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5	3821.5
2.5°	3860.0	3739.0	3469.6	3266.2	3046.2	2914.3	2782.3	2699.8	2655.8	2628.3	2650.3
5°	3959.0	3706.1	3271.7	2886.8	2633.8	2463.4	2292.9	2204.9	2122.5	2078.5	2106.0
7.5°	4178.9	3799.5	3079.2	2661.3	2364.4	2100.5	1886.0	1715.6	1616.6	1528.6	1545.1
10°	4448.4	3854.5	3084.7	2529.4	2100.5	1682.6	1380.1	1165.7	1044.7	967.8	962.3
12.5°	4723.3	4069.0	3106.7	2397.4	1776.0	1264.7	907.3	747.8	676.3	637.8	637.8
15°	5141.2	4261.4	3051.7	2155.5	1347.2	824.8	621.3	566.4	538.9	505.9	511.4
17.5°	5504.1	4569.3	3024.2	1792.5	923.8	593.8	516.9	456.4	428.9	395.9	395.9
20°	5993.5	4761.8	2875.8	1385.6	637.8	494.9	417.9	362.9	318.9	291.4	296.9
22.5°	6438.9	4910.3	2611.8	945.8	489.4	390.4	307.9	252.9	214.4	181.5	187.0
25°	6922.7	5058.7	2226.9	582.9	346.4	241.9	165.0	121.0	82.5	60.5	60.5
27.5°	7269.2	5102.7	1726.6	346.4	208.9	110.0	38.5	5.5	0.0	0.0	0.0
30°	7621.1	5119.2	1193.2	187.0	82.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8022.5	5113.7	747.8	99.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	8330.4	5020.2	357.4	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8797.8	4882.8	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9331.1	4635.3	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9809.5	4382.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10353.9	4069.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11310.6	3937.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12558.8	3832.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13328.6	3524.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13730.0	3205.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14323.9	3051.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15203.6	3062.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16578.3	3216.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17337.1	3062.7	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16693.8	2452.4	104.5	27.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	16138.4	2254.4	104.5	27.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	13339.6	1468.1	99.0	27.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9716.0	813.8	82.5	22.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5652.6	406.9	60.5	22.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1473.6	203.4	49.5	27.5	16.5	5.5	0.0	0.0	0.0	0.0	0.0
80°	291.4	132.0	44.0	33.0	22.0	11.0	0.0	0.0	0.0	0.0	0.0
82.5°	137.5	93.5	44.0	33.0	27.5	16.5	5.5	0.0	0.0	0.0	0.0
85°	71.5	44.0	44.0	33.0	33.0	22.0	11.0	0.0	0.0	0.0	0.0
87.5°	33.0	16.5	16.5	16.5	16.5	11.0	5.5	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)