

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: P482828

Luminaire Tested: **IFLD-L-SA8B-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482828
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

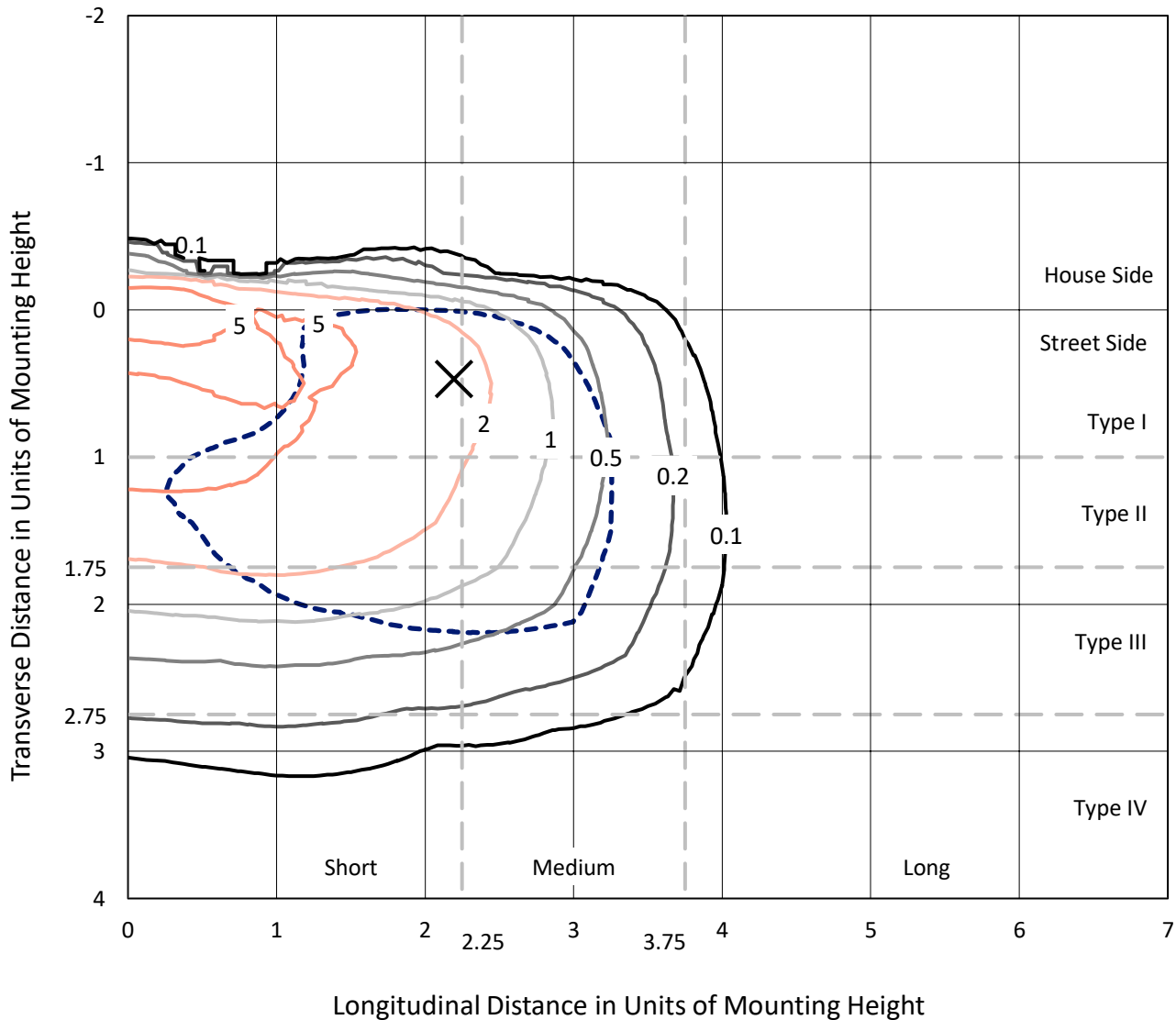
Lumens per Lamp: N/A
Luminaire Lumens: 28773.9 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

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 CATALOG NUMBER: IFLD-L-SA8B-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

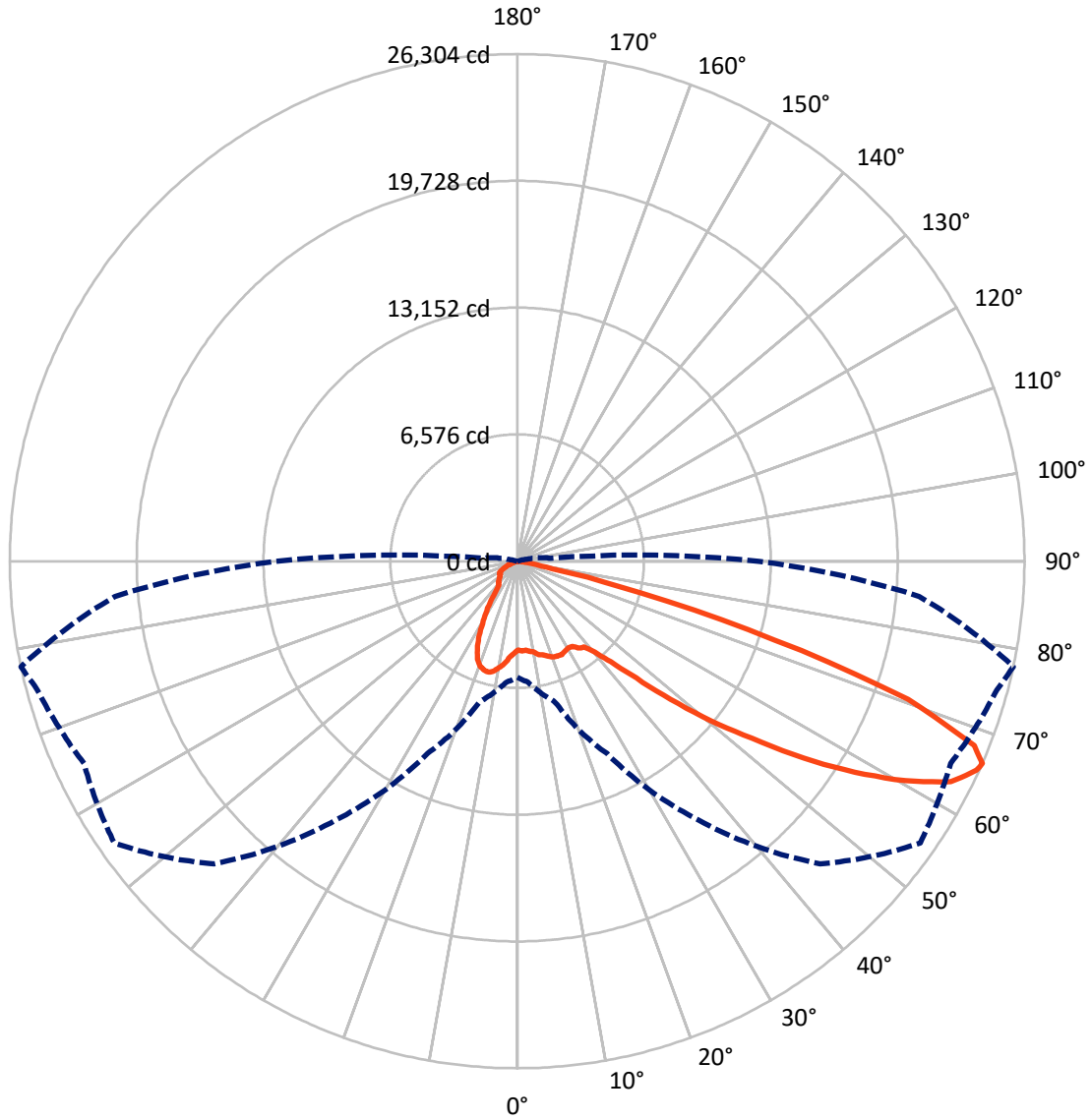
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

REPORT NUMBER: P482828
CATALOG NUMBER: IFLD-L-SA8B-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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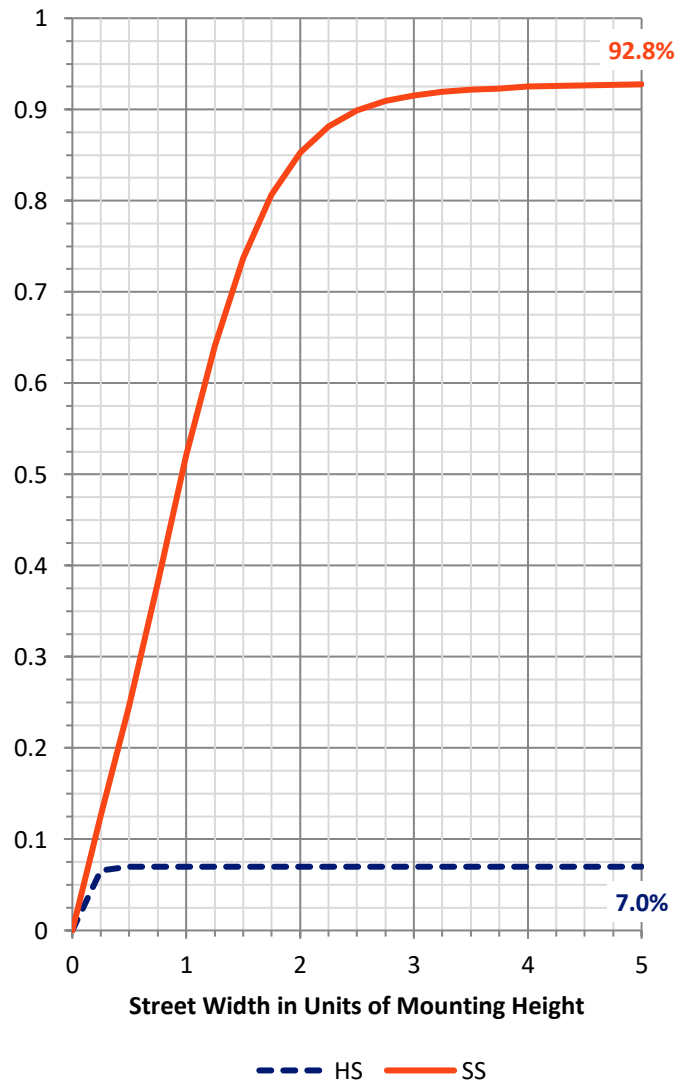
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2022.9	0.0	2022.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	26751.0	0.0	26751.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	28773.9	0.0	28773.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.6	1.5
10°-20°	951.8	3.3
20°-30°	1360.4	4.7
30°-40°	2328.6	8.1
40°-50°	4202.8	14.6
50°-60°	7187.4	25.0
60°-70°	8846.4	30.7
70°-80°	3344.4	11.6
80°-90°	130.6	0.5
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°	28773.9	100.0
0°-180°	28773.9	100.0

Coefficient of Utilization

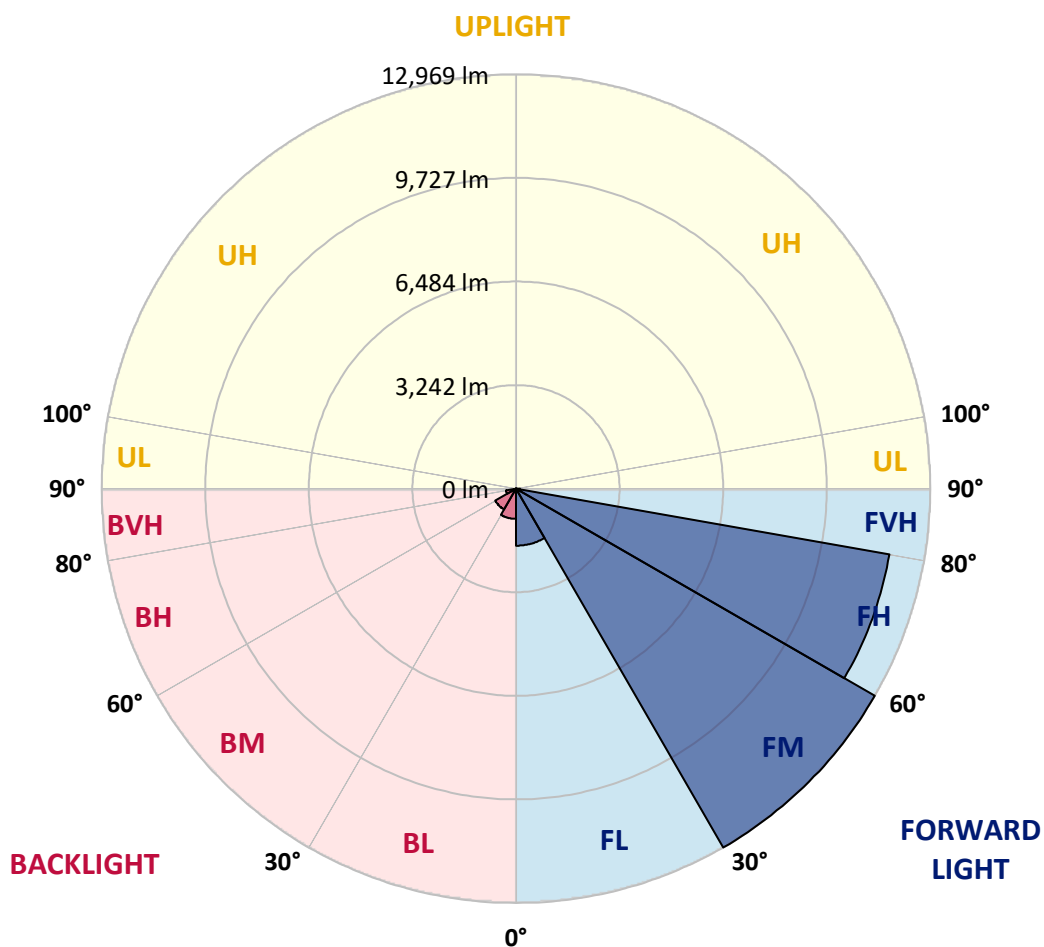


REPORT NUMBER: P482828
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.3	6.2			
FM (30°-60°)	12969.0	45.1			
FH (60°-80°)	11870.3	41.3			G4/12000
FVH (80°-90°)	125.4	0.4			G2/225
BL (0°-30°)	947.4	3.3	B2/1000		
BM (30°-60°)	749.8	2.6	B1/1000		
BH (60°-80°)	320.5	1.1	B1/500		G1/500
BVH (80°-90°)	5.2	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 III Short





REPORT NUMBER: P482828

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6
2.5°	4239.1	4200.0	4239.1	4295.6	4326.0	4352.1	4443.4	4521.7	4604.3	4660.8	4643.4
5°	3930.4	4004.3	4013.0	4030.4	4078.2	4234.7	4286.9	4421.7	4626.0	4643.4	4721.7
7.5°	3686.9	3665.2	3721.7	3834.7	3956.5	4047.8	4200.0	4434.7	4647.8	4721.7	4873.9
10°	3334.7	3378.2	3439.1	3552.1	3700.0	3926.0	4195.6	4456.5	4760.8	4786.9	5069.5
12.5°	3143.4	3100.0	3195.6	3313.0	3565.2	3773.9	4104.3	4417.3	4830.4	4973.9	5299.9
15°	2986.9	3008.7	3100.0	3178.2	3386.9	3652.1	4039.1	4513.0	4947.8	5047.8	5543.4
17.5°	2921.7	2908.7	2978.2	3056.5	3313.0	3613.0	4013.0	4517.3	5052.1	5182.6	5708.6
20°	2952.1	2978.2	2956.5	3030.4	3191.3	3495.6	4052.1	4600.0	5130.4	5308.6	5886.9
22.5°	3430.4	3395.6	3221.7	3082.6	3091.3	3447.8	4021.7	4652.1	5199.9	5343.4	6008.6
25°	4678.2	4491.3	4060.8	3526.1	3173.9	3317.4	3986.9	4634.7	5186.9	5365.2	6082.5
27.5°	5934.7	5773.9	5352.1	4521.7	3508.7	3265.2	3865.2	4647.8	5121.7	5286.9	5960.8
30°	7260.8	7347.8	6721.7	5734.7	4386.9	3552.1	3786.9	4578.2	5078.2	5217.3	5986.9
32.5°	8621.7	8586.9	8208.6	7139.1	5643.4	4186.9	3913.0	4647.8	5134.7	5269.5	6139.1
35°	9686.9	9565.1	9182.5	8217.3	6682.5	5143.4	4347.8	4978.2	5382.6	5543.4	6356.5
37.5°	10212.9	10265.1	10043.4	9204.3	7821.7	6030.4	4891.3	4978.2	5460.8	5647.8	6708.6
40°	10621.6	10778.2	10695.5	10426.0	8952.1	7030.4	5491.2	5286.9	5856.5	6208.6	7369.5
42.5°	11112.9	11039.0	11526.0	11278.1	10430.3	8291.2	6543.4	6021.7	6791.2	7130.4	8360.8
45°	11373.8	11656.4	12026.0	12343.4	11799.9	9865.1	7917.3	7321.7	8221.7	8652.1	9834.7
47.5°	12043.4	12156.4	12756.4	13156.4	12912.9	11665.1	10004.2	9221.6	10021.6	10699.9	11521.6
50°	12434.7	12282.5	13121.6	13730.3	13869.4	13156.4	11873.8	11265.1	12160.7	13026.0	13099.9
52.5°	12091.2	12526.0	13365.1	14456.4	14843.3	14486.8	14069.4	13804.2	14434.6	15234.6	14878.1
55°	10886.8	11182.5	13226.0	15252.0	16499.8	16334.6	16721.6	16547.7	17182.4	18030.2	16956.3
57.5°	9917.3	10286.9	12082.5	15665.1	18043.3	18530.2	19017.2	18908.5	19673.7	20652.0	18717.2
60°	9312.9	9526.0	11256.4	15560.7	18956.3	20799.8	21899.8	21134.6	22382.4	23130.2	20095.4
62.5°	8265.1	8399.9	10052.1	14178.1	19230.2	22404.1	24269.3	23230.2	24312.8	25225.8	21086.7
65°	6626.0	6991.2	8356.4	12108.6	17421.6	22699.8	25747.6	24525.8	25573.7	26173.6	21386.7
66°	6030.4	6295.6	7547.7	11012.9	16391.1	22208.5	25499.7	24795.4	25756.3	26304.1	20925.9
67.5°	5004.3	5234.7	6230.4	9452.1	14282.5	21125.9	25673.6	24612.8	25895.4	25560.6	20308.5
70°	3313.0	3460.8	4260.8	6391.2	9947.7	17282.4	23812.8	23186.7	22765.0	21508.5	15878.1
72.5°	1547.8	1760.9	2660.8	3873.9	5834.7	12091.2	19417.2	18578.1	15965.1	13956.4	10017.3
75°	700.0	795.6	1460.9	2221.7	2617.4	6265.2	12526.0	11312.9	7947.7	6599.9	4386.9
77.5°	378.3	430.4	713.0	1056.5	952.2	2195.6	6199.9	5156.5	2504.3	1834.8	1273.9
80°	291.3	343.5	595.6	604.3	352.2	569.6	2304.3	1595.6	626.1	473.9	304.3
82.5°	152.2	217.4	469.6	391.3	178.3	230.4	713.0	443.5	195.7	156.5	130.4
85°	60.9	95.7	265.2	260.9	104.3	78.3	200.0	134.8	78.3	65.2	60.9
87.5°	4.3	4.3	143.5	100.0	65.2	21.7	30.4	30.4	39.1	34.8	43.5
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°	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6	4608.6
2.5°	4721.7	4773.9	4782.6	4926.0	4956.5	4926.0	5004.3	4991.3	5026.0	4999.9	4952.1
5°	4830.4	4904.3	5047.8	5156.5	5156.5	5069.5	4999.9	4908.6	4773.9	4739.1	4713.0
7.5°	5017.3	5252.1	5382.6	5313.0	5173.9	4847.8	4395.6	4065.2	3786.9	3682.6	3634.7
10°	5347.8	5478.2	5630.4	5347.8	4769.5	4078.2	3317.4	2817.4	2426.1	2339.1	2273.9
12.5°	5560.8	5769.5	5856.5	5156.5	4021.7	2991.3	2165.2	1600.0	1326.1	1117.4	1082.6
15°	5839.1	6078.2	5899.9	4639.1	3169.5	1960.8	1121.7	700.0	569.6	534.8	534.8
17.5°	6030.4	6291.2	5721.7	3995.6	2247.8	1043.5	556.5	482.6	473.9	478.3	469.6
20°	6365.2	6521.7	5452.1	3247.8	1343.5	534.8	447.8	430.4	421.7	434.8	426.1
22.5°	6491.2	6634.7	5013.0	2352.1	604.3	356.5	334.8	321.7	330.4	326.1	321.7
25°	6482.5	6556.5	4291.3	1347.8	178.3	139.1	126.1	126.1	117.4	121.7	117.4
27.5°	6547.8	6365.2	3482.6	400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6582.5	6056.5	2478.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6599.9	5895.6	1595.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6734.7	5573.9	682.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6826.0	5160.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7204.3	5030.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7695.6	4786.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8378.2	4426.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9282.5	4213.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9956.4	3878.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10812.9	3678.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11830.3	3686.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12756.4	3626.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13230.3	3100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13130.3	2508.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12782.5	1969.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12543.3	1743.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11817.3	1395.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9404.3	956.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5982.5	587.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2756.5	269.6	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	865.2	165.2	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	226.1	104.3	34.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	117.4	73.9	30.4	13.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.9	30.4	13.0	8.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	65.2	17.4	8.7	8.7	4.3	0.0	0.0	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)