

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: P482827

Luminaire Tested: **IFLD-L-SA8A-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482827
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-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

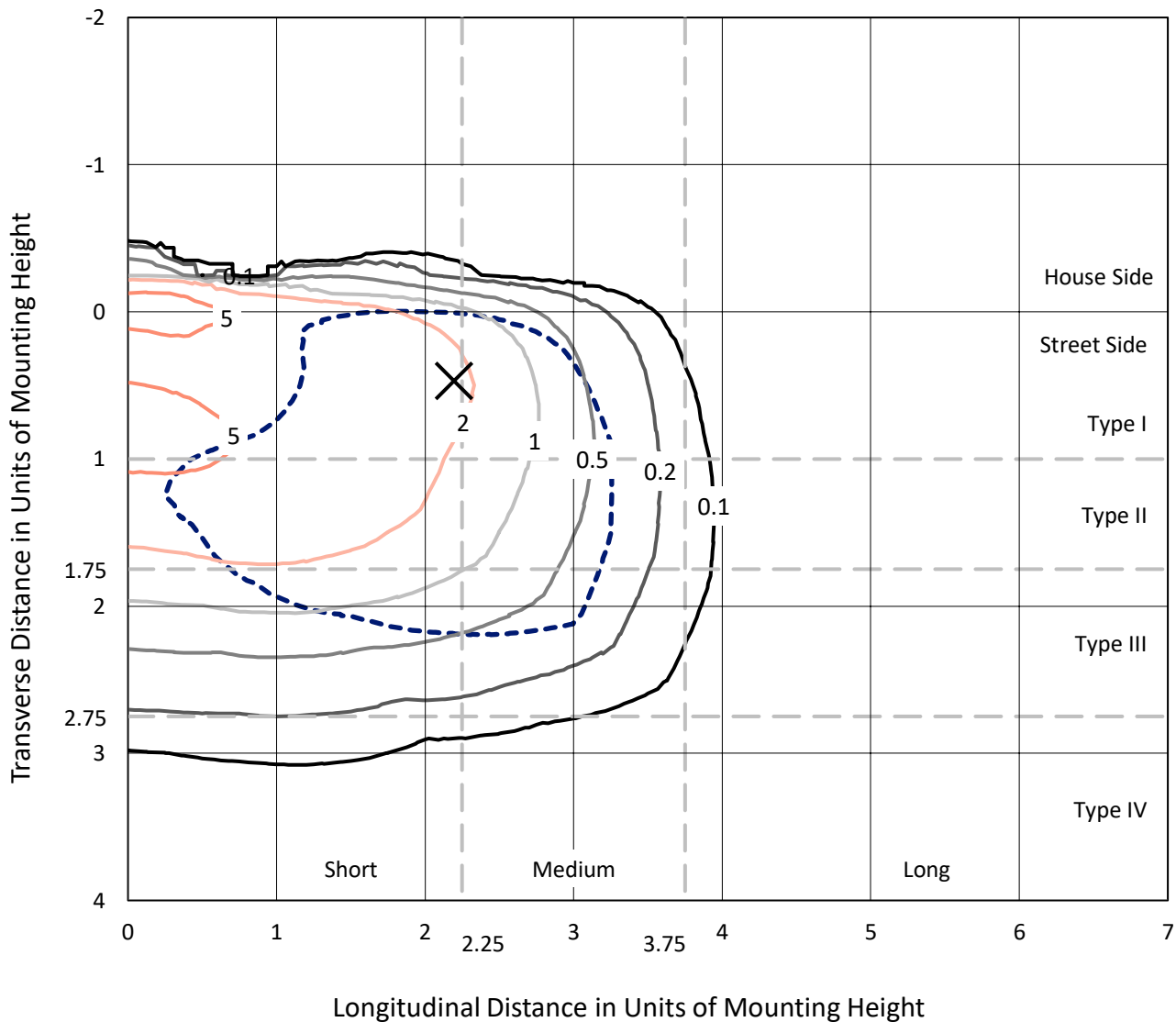
Lumens per Lamp: N/A
Luminaire Lumens: 24219.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (A_{in}): 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

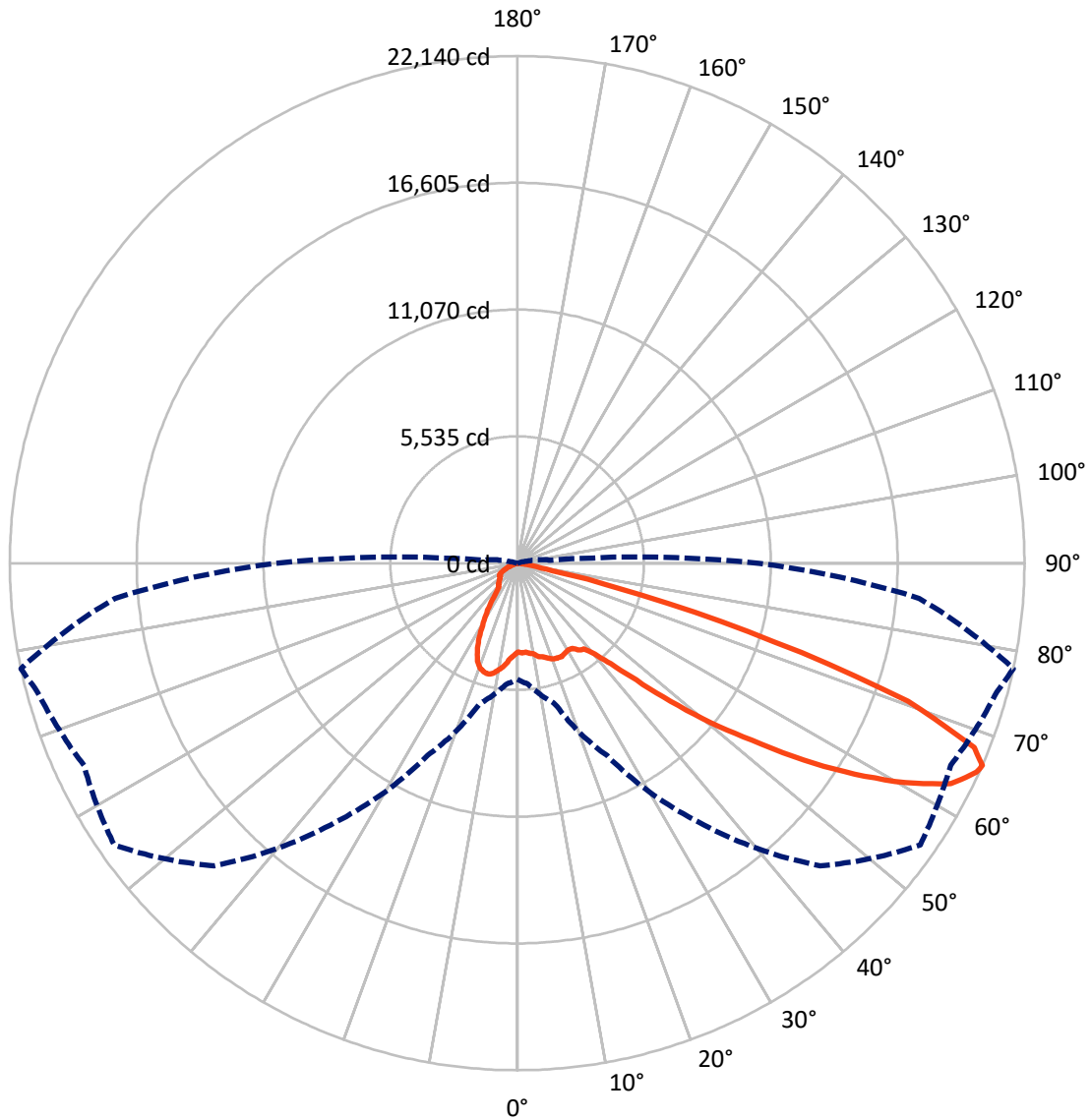
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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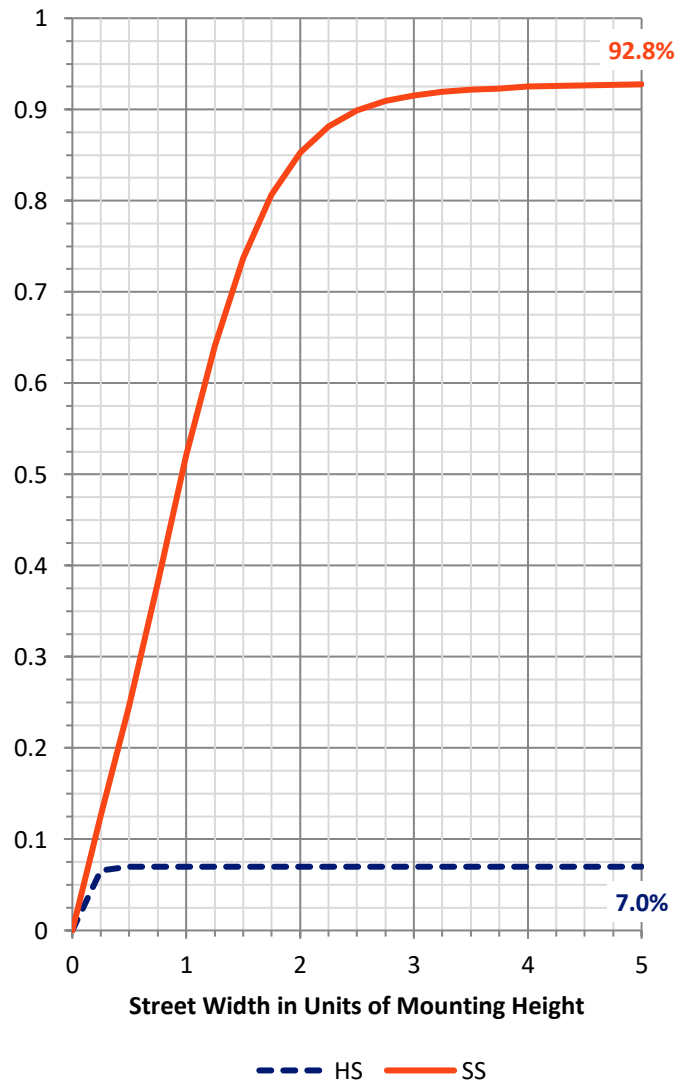
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1702.7	0.0	1702.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	22516.4	0.0	22516.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	24219.1	0.0	24219.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	1.5
10°-20°	801.1	3.3
20°-30°	1145.0	4.7
30°-40°	1960.0	8.1
40°-50°	3537.5	14.6
50°-60°	6049.6	25.0
60°-70°	7446.0	30.7
70°-80°	2815.0	11.6
80°-90°	110.0	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°	24219.1	100.0
0°-180°	24219.1	100.0

Coefficient of Utilization

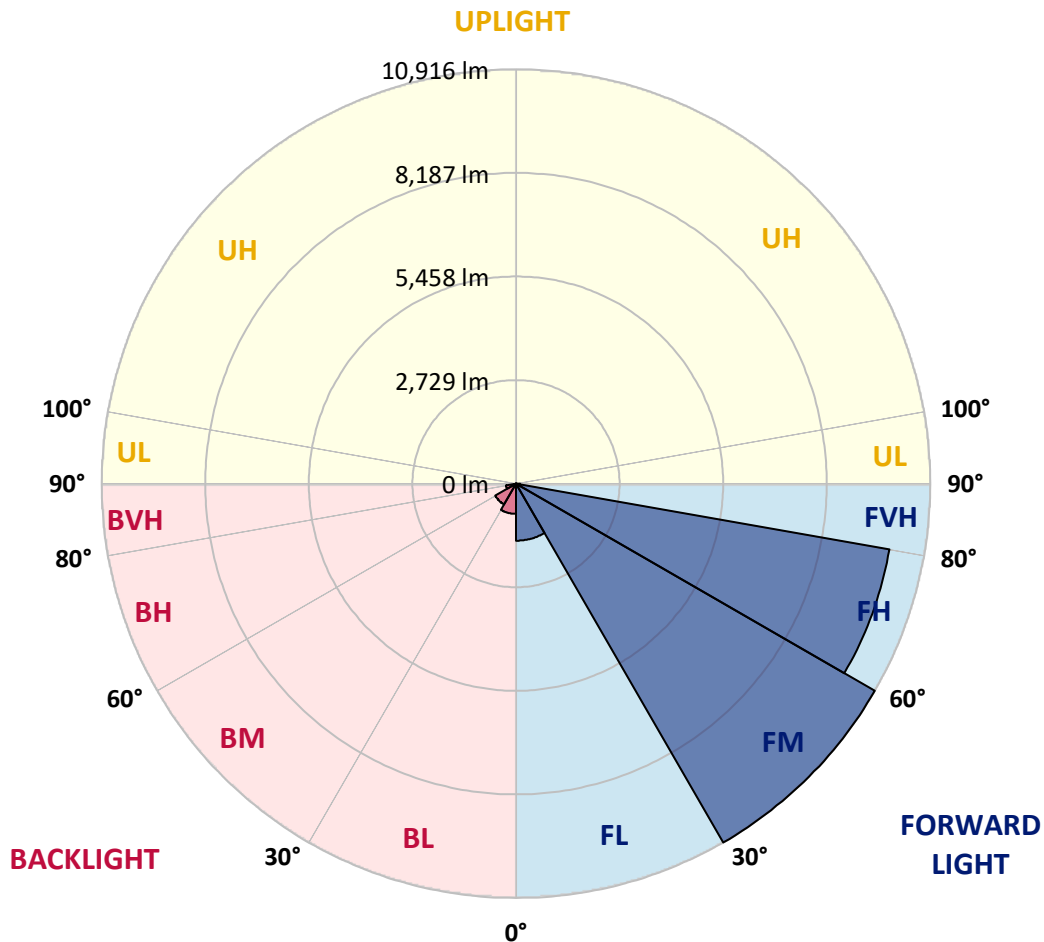


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.5	6.2			
FM (30°-60°)	10916.0	45.1			
FH (60°-80°)	9991.3	41.3			G4/12000
FVH (80°-90°)	105.6	0.4			G2/225
BL (0°-30°)	797.5	3.3	B2/1000		
BM (30°-60°)	631.1	2.6	B1/1000		
BH (60°-80°)	269.8	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: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3568.1	3535.1	3568.1	3615.6	3641.2	3663.2	3740.1	3805.9	3875.5	3923.0	3908.4
5°	3308.2	3370.4	3377.8	3392.4	3432.7	3564.4	3608.3	3721.8	3893.8	3908.4	3974.3
7.5°	3103.3	3085.0	3132.6	3227.7	3330.2	3407.0	3535.1	3732.7	3912.1	3974.3	4102.3
10°	2806.9	2843.5	2894.7	2989.8	3114.3	3304.6	3531.5	3751.0	4007.2	4029.2	4267.0
12.5°	2645.9	2609.3	2689.8	2788.6	3000.8	3176.5	3454.6	3718.1	4065.8	4186.5	4461.0
15°	2514.1	2532.4	2609.3	2675.1	2850.8	3074.0	3399.7	3798.6	4164.6	4248.7	4665.9
17.5°	2459.2	2448.2	2506.8	2572.7	2788.6	3041.1	3377.8	3802.3	4252.4	4362.2	4805.0
20°	2484.8	2506.8	2488.5	2550.7	2686.1	2942.3	3410.7	3871.8	4318.3	4468.3	4955.0
22.5°	2887.4	2858.1	2711.7	2594.6	2601.9	2902.0	3385.1	3915.7	4376.8	4497.6	5057.5
25°	3937.7	3780.3	3418.0	2967.9	2671.5	2792.2	3355.8	3901.1	4365.8	4515.9	5119.7
27.5°	4995.3	4859.9	4504.9	3805.9	2953.3	2748.3	3253.3	3912.1	4310.9	4450.0	5017.2
30°	6111.4	6184.6	5657.7	4826.9	3692.5	2989.8	3187.5	3853.5	4274.3	4391.5	5039.2
32.5°	7256.9	7227.6	6909.2	6009.0	4750.1	3524.1	3293.6	3912.1	4321.9	4435.4	5167.3
35°	8153.5	8051.0	7729.0	6916.5	5624.7	4329.2	3659.5	4190.2	4530.5	4665.9	5350.3
37.5°	8596.3	8640.2	8453.5	7747.3	6583.5	5075.8	4117.0	4190.2	4596.4	4753.7	5646.7
40°	8940.3	9072.0	9002.5	8775.6	7535.0	5917.5	4622.0	4450.0	4929.4	5225.8	6202.9
42.5°	9353.8	9291.6	9701.5	9492.9	8779.2	6978.8	5507.6	5068.5	5716.2	6001.7	7037.3
45°	9573.4	9811.2	10122.3	10389.4	9932.0	8303.5	6664.0	6162.7	6920.2	7282.5	8277.9
47.5°	10136.9	10232.1	10737.1	11073.8	10868.8	9818.6	8420.6	7761.9	8435.2	9006.1	9697.8
50°	10466.3	10338.2	11044.5	11556.8	11673.9	11073.8	9994.2	9481.9	10235.7	10964.0	11026.2
52.5°	10177.2	10543.1	11249.4	12168.0	12493.7	12193.6	11842.3	11619.1	12149.7	12823.0	12523.0
55°	9163.5	9412.3	11132.3	12837.7	13888.0	13748.9	14074.6	13928.2	14462.5	15176.1	14272.2
57.5°	8347.4	8658.5	10169.9	13185.3	15187.1	15597.0	16006.8	15915.4	16559.4	17382.8	15754.3
60°	7838.7	8018.1	9474.6	13097.5	15955.6	17507.3	18433.1	17789.0	18839.3	19468.8	16914.4
62.5°	6956.8	7070.2	8460.9	11933.8	16186.2	18857.6	20427.6	19552.9	20464.2	21232.7	17748.8
65°	5577.1	5884.5	7033.6	10191.8	14663.8	19106.5	21671.8	20643.5	21525.4	22030.5	18001.3
66°	5075.8	5299.0	6353.0	9269.6	13796.5	18693.0	21463.2	20870.4	21679.1	22140.2	17613.4
67.5°	4212.1	4406.1	5244.1	7955.8	12021.6	17781.7	21609.6	20716.7	21796.2	21514.5	17093.7
70°	2788.6	2913.0	3586.4	5379.5	8373.0	14546.7	20043.3	19516.4	19161.4	18103.8	13364.7
72.5°	1302.8	1482.1	2239.6	3260.7	4911.1	10177.2	16343.5	15637.2	13437.8	11747.1	8431.6
75°	589.2	669.7	1229.6	1870.0	2203.0	5273.4	10543.1	9522.1	6689.6	5555.2	3692.5
77.5°	318.4	362.3	600.2	889.3	801.4	1848.1	5218.5	4340.2	2107.9	1544.3	1072.2
80°	245.2	289.1	501.4	508.7	296.4	479.4	1939.6	1343.1	527.0	398.9	256.2
82.5°	128.1	183.0	395.2	329.4	150.0	194.0	600.2	373.3	164.7	131.7	109.8
85°	51.2	80.5	223.2	219.6	87.8	65.9	168.3	113.4	65.9	54.9	51.2
87.5°	3.7	3.7	120.8	84.2	54.9	18.3	25.6	25.6	32.9	29.3	36.6
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°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3974.3	4018.2	4025.5	4146.3	4171.9	4146.3	4212.1	4201.2	4230.4	4208.5	4168.2
5°	4065.8	4128.0	4248.7	4340.2	4340.2	4267.0	4208.5	4131.6	4018.2	3988.9	3966.9
7.5°	4223.1	4420.7	4530.5	4472.0	4354.9	4080.4	3699.8	3421.7	3187.5	3099.6	3059.4
10°	4501.2	4611.0	4739.1	4501.2	4014.5	3432.7	2792.2	2371.4	2042.0	1968.8	1913.9
12.5°	4680.6	4856.2	4929.4	4340.2	3385.1	2517.8	1822.5	1346.7	1116.2	940.5	911.2
15°	4914.8	5116.0	4966.0	3904.7	2667.8	1650.5	944.2	589.2	479.4	450.1	450.1
17.5°	5075.8	5295.4	4816.0	3363.1	1892.0	878.3	468.4	406.2	398.9	402.5	395.2
20°	5357.6	5489.3	4589.1	2733.7	1130.8	450.1	376.9	362.3	355.0	366.0	358.6
22.5°	5463.7	5584.5	4219.5	1979.8	508.7	300.1	281.8	270.8	278.1	274.5	270.8
25°	5456.4	5518.6	3612.0	1134.5	150.0	117.1	106.1	106.1	98.8	102.5	98.8
27.5°	5511.3	5357.6	2931.3	336.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5540.6	5097.7	2085.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5555.2	4962.3	1343.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5668.6	4691.5	574.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5745.5	4343.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6063.9	4234.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6477.4	4029.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7051.9	3725.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7813.1	3546.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8380.4	3264.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9101.3	3096.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9957.6	3103.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10737.1	3052.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11136.0	2609.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11051.8	2111.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10759.1	1657.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10557.8	1467.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9946.6	1174.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7915.6	805.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5035.5	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2320.2	226.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	728.2	139.1	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	190.3	87.8	29.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.8	62.2	25.6	11.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	62.2	25.6	11.0	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	54.9	14.6	7.3	7.3	3.7	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)