

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: P482979

Luminaire Tested: **IFLD-L-SA7B-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482979
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

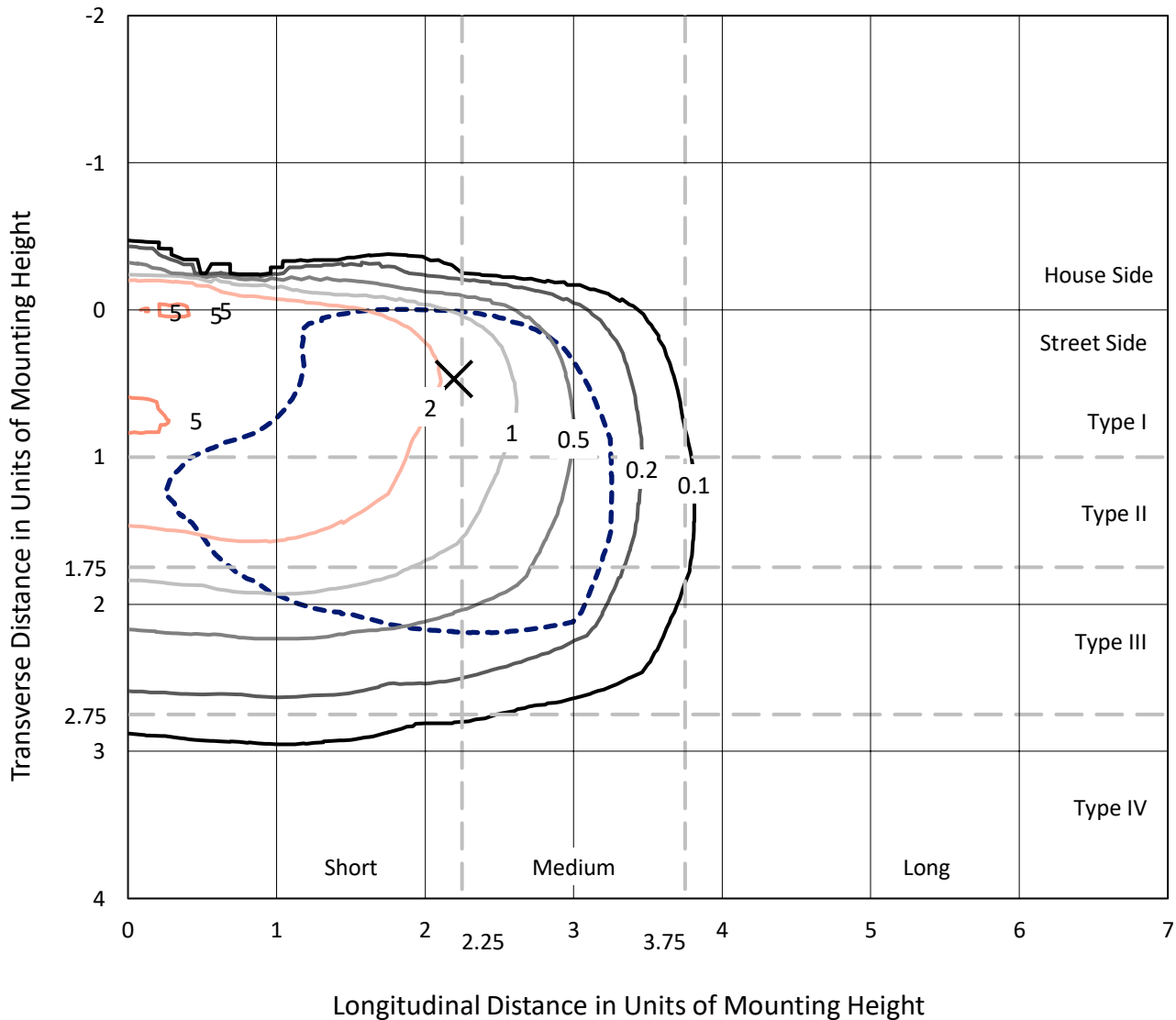
Lumens per Lamp: N/A
Luminaire Lumens: 18765.2 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

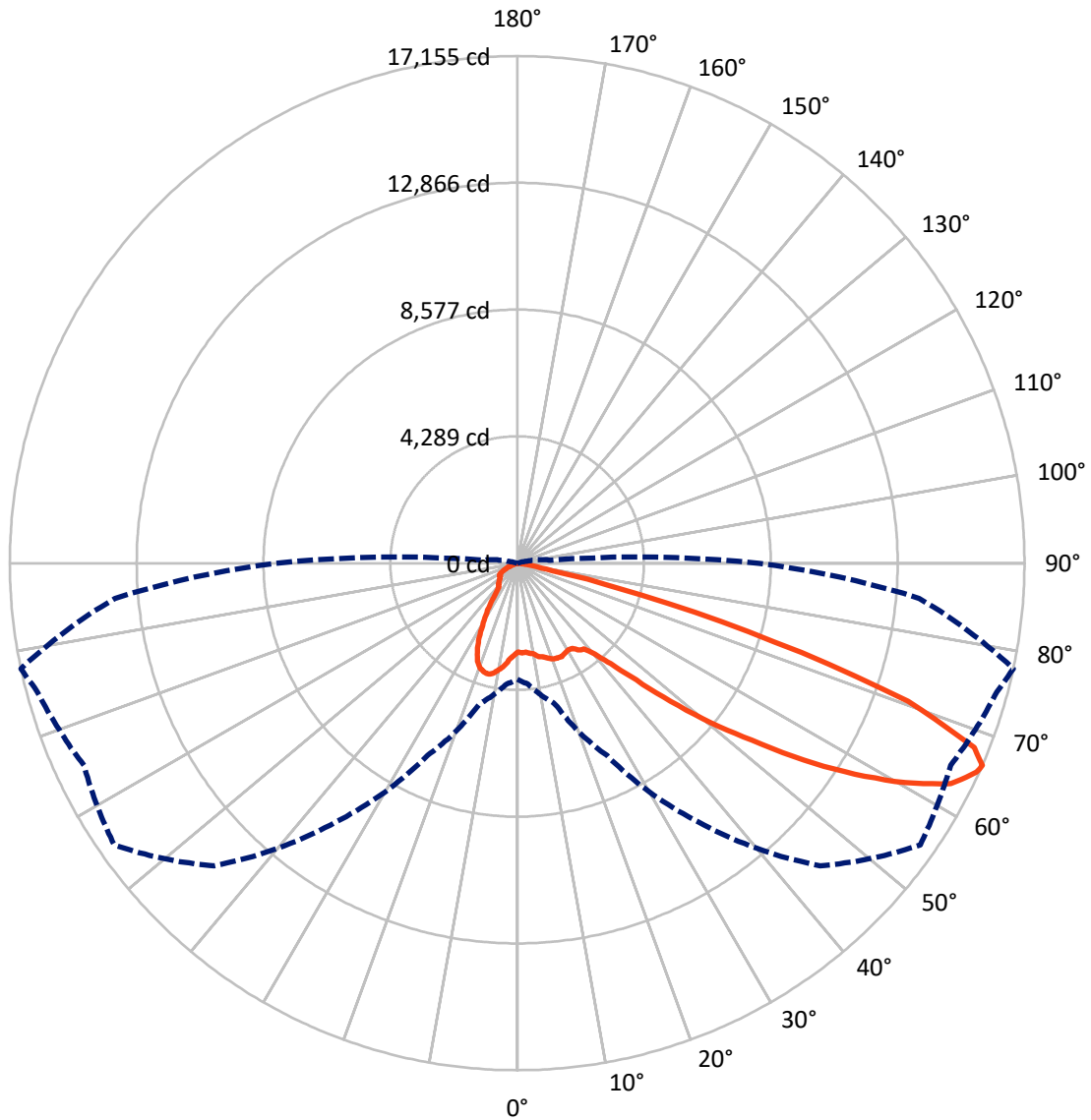
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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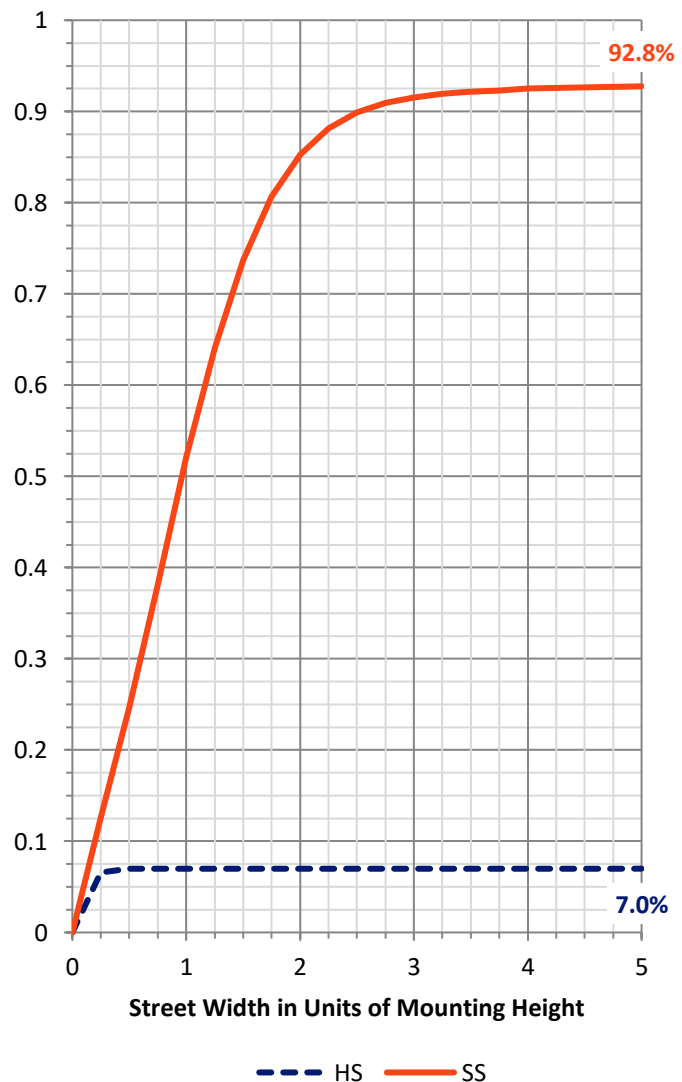
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1319.3	0.0	1319.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	17445.9	0.0	17445.9
	% Fixture	93.0	0.0	93.0
Total	Lumens	18765.2	0.0	18765.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	1.5
10°-20°	620.7	3.3
20°-30°	887.2	4.7
30°-40°	1518.6	8.1
40°-50°	2740.9	14.6
50°-60°	4687.3	25.0
60°-70°	5769.3	30.7
70°-80°	2181.1	11.6
80°-90°	85.2	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°	18765.2	100.0
0°-180°	18765.2	100.0

Coefficient of Utilization

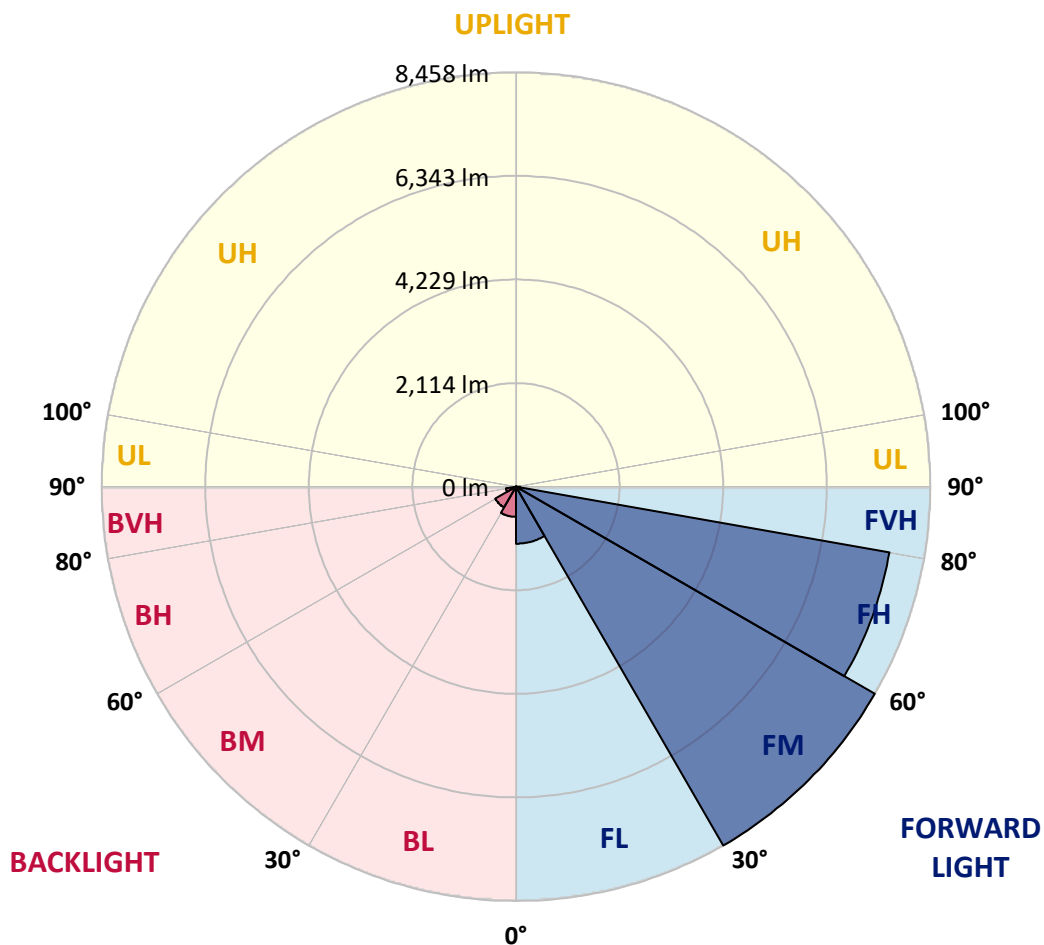


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.0	6.2			
FM (30°-60°)	8457.9	45.1			
FH (60°-80°)	7741.3	41.3			G4/12000
FVH (80°-90°)	81.8	0.4			G1/100
BL (0°-30°)	617.9	3.3	B2/1000		
BM (30°-60°)	489.0	2.6	B1/1000		
BH (60°-80°)	209.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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°	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6
2.5°	2764.6	2739.0	2764.6	2801.4	2821.3	2838.3	2897.8	2948.9	3002.7	3039.6	3028.3
5°	2563.2	2611.4	2617.1	2628.5	2659.7	2761.7	2795.8	2883.7	3016.9	3028.3	3079.3
7.5°	2404.5	2390.3	2427.1	2500.9	2580.3	2639.8	2739.0	2892.2	3031.1	3079.3	3178.5
10°	2174.8	2203.1	2242.8	2316.6	2413.0	2560.4	2736.2	2906.3	3104.8	3121.8	3306.1
12.5°	2050.0	2021.7	2084.1	2160.6	2325.1	2461.2	2676.7	2880.8	3150.2	3243.8	3456.4
15°	1948.0	1962.1	2021.7	2072.7	2208.8	2381.8	2634.1	2943.2	3226.7	3292.0	3615.2
17.5°	1905.4	1896.9	1942.3	1993.3	2160.6	2356.3	2617.1	2946.0	3294.8	3379.9	3722.9
20°	1925.3	1942.3	1928.1	1976.3	2081.2	2279.7	2642.6	2999.9	3345.8	3462.1	3839.2
22.5°	2237.2	2214.5	2101.1	2010.3	2016.0	2248.5	2622.8	3033.9	3391.2	3484.8	3918.6
25°	3050.9	2929.0	2648.3	2299.6	2069.9	2163.4	2600.1	3022.6	3382.7	3498.9	3966.8
27.5°	3870.4	3765.5	3490.4	2948.9	2288.2	2129.4	2520.7	3031.1	3340.2	3447.9	3887.4
30°	4735.2	4791.9	4383.6	3740.0	2861.0	2316.6	2469.7	2985.7	3311.8	3402.5	3904.4
32.5°	5622.7	5600.0	5353.3	4655.8	3680.4	2730.5	2551.9	3031.1	3348.7	3436.6	4003.7
35°	6317.4	6238.0	5988.5	5359.0	4358.1	3354.3	2835.5	3246.6	3510.3	3615.2	4145.4
37.5°	6660.5	6694.5	6549.9	6002.6	5101.0	3932.8	3189.9	3246.6	3561.3	3683.3	4375.1
40°	6927.0	7029.1	6975.2	6799.4	5838.2	4584.9	3581.2	3447.9	3819.4	4049.0	4806.1
42.5°	7247.4	7199.2	7516.8	7355.2	6802.2	5407.2	4267.4	3927.1	4429.0	4650.1	5452.6
45°	7417.5	7601.8	7842.9	8049.8	7695.4	6433.6	5163.4	4774.9	5361.8	5642.5	6413.8
47.5°	7854.2	7927.9	8319.2	8580.1	8421.3	7607.5	6524.4	6014.0	6535.7	6978.0	7513.9
50°	8109.4	8010.1	8557.4	8954.4	9045.1	8580.1	7743.6	7346.7	7930.8	8495.0	8543.2
52.5°	7885.4	8168.9	8716.2	9427.9	9680.2	9447.7	9175.5	9002.6	9413.7	9935.4	9702.9
55°	7100.0	7292.8	8625.4	9946.8	10760.5	10652.8	10905.1	10791.7	11205.7	11758.6	11058.3
57.5°	6467.7	6708.7	7879.7	10216.1	11767.1	12084.7	12402.3	12331.4	12830.4	13468.4	12206.6
60°	6073.5	6212.5	7341.0	10148.1	12362.6	13564.8	14282.2	13783.1	14596.9	15084.6	13105.5
62.5°	5390.2	5478.1	6555.6	9246.4	12541.2	14611.1	15827.5	15149.8	15855.8	16451.3	13751.9
65°	4321.2	4559.4	5449.7	7896.7	11361.7	14803.9	16791.5	15994.8	16678.1	17069.4	13947.6
66°	3932.8	4105.7	4922.3	7182.2	10689.6	14483.5	16629.9	16170.6	16797.2	17154.5	13647.0
67.5°	3263.6	3413.9	4063.2	6164.3	9314.5	13777.5	16743.3	16051.5	16887.9	16669.6	13244.4
70°	2160.6	2257.0	2778.7	4168.1	6487.5	11270.9	15529.8	15121.5	14846.4	14027.0	10355.1
72.5°	1009.4	1148.4	1735.3	2526.4	3805.2	7885.4	12663.1	12115.9	10411.8	9101.8	6532.9
75°	456.5	518.9	952.7	1448.9	1706.9	4085.9	8168.9	7377.8	5183.2	4304.2	2861.0
77.5°	246.7	280.7	465.0	689.0	621.0	1431.9	4043.4	3362.8	1633.2	1196.6	830.8
80°	190.0	224.0	388.5	394.1	229.7	371.4	1502.8	1040.6	408.3	309.1	198.5
82.5°	99.2	141.8	306.2	255.2	116.3	150.3	465.0	289.2	127.6	102.1	85.1
85°	39.7	62.4	173.0	170.1	68.1	51.0	130.4	87.9	51.0	42.5	39.7
87.5°	2.8	2.8	93.6	65.2	42.5	14.2	19.8	19.8	25.5	22.7	28.4
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°	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6	3005.6
2.5°	3079.3	3113.3	3119.0	3212.6	3232.4	3212.6	3263.6	3255.1	3277.8	3260.8	3229.6
5°	3150.2	3198.4	3292.0	3362.8	3362.8	3306.1	3260.8	3201.2	3113.3	3090.6	3073.6
7.5°	3272.1	3425.2	3510.3	3464.9	3374.2	3161.5	2866.6	2651.1	2469.7	2401.6	2370.4
10°	3487.6	3572.7	3671.9	3487.6	3110.5	2659.7	2163.4	1837.4	1582.2	1525.5	1482.9
12.5°	3626.5	3762.6	3819.4	3362.8	2622.8	1950.8	1412.1	1043.4	864.8	728.7	706.0
15°	3808.0	3964.0	3847.7	3025.4	2067.0	1278.8	731.5	456.5	371.4	348.8	348.8
17.5°	3932.8	4102.9	3731.5	2605.8	1465.9	680.5	362.9	314.7	309.1	311.9	306.2
20°	4151.1	4253.2	3555.7	2118.1	876.2	348.8	292.1	280.7	275.0	283.5	277.9
22.5°	4233.3	4326.9	3269.3	1534.0	394.1	232.5	218.3	209.8	215.5	212.7	209.8
25°	4227.7	4275.9	2798.6	879.0	116.3	90.7	82.2	82.2	76.6	79.4	76.6
27.5°	4270.2	4151.1	2271.2	260.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4292.9	3949.8	1616.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4304.2	3844.9	1040.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4392.1	3635.0	445.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4451.7	3365.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4698.3	3280.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5018.7	3121.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5463.9	2886.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6053.7	2747.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6493.2	2529.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7051.8	2398.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7715.3	2404.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8319.2	2364.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8628.3	2021.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8563.1	1636.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8336.2	1284.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8180.3	1137.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7706.8	910.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6133.1	623.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3901.6	382.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1797.7	175.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	564.3	107.7	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	147.4	68.1	22.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.6	48.2	19.8	8.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.2	19.8	8.5	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.5	11.3	5.7	5.7	2.8	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)