

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: P482043

Luminaire Tested: **IFLD-L-SA7B-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

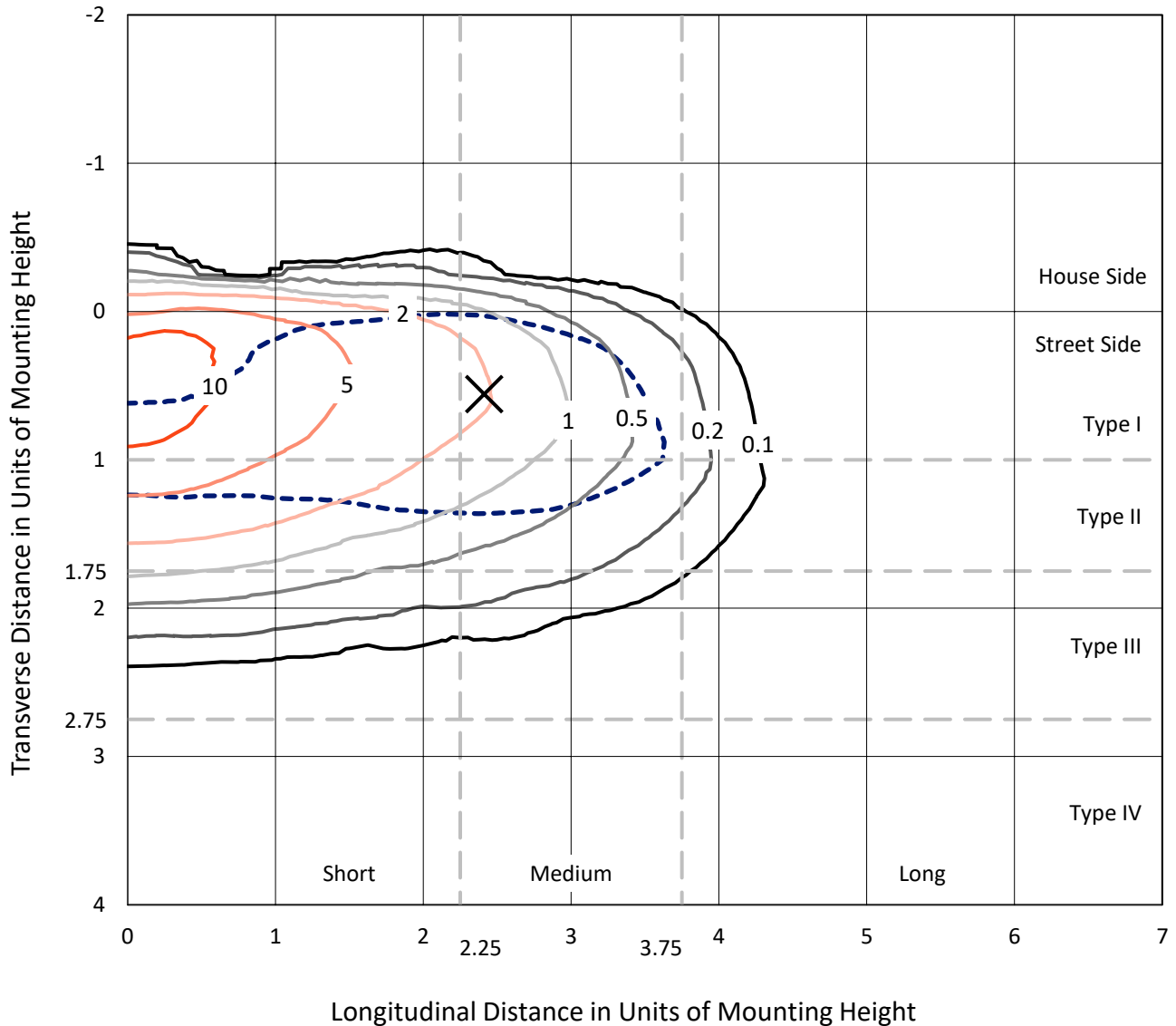
Lumens per Lamp: N/A
Luminaire Lumens: 27614.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 281
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

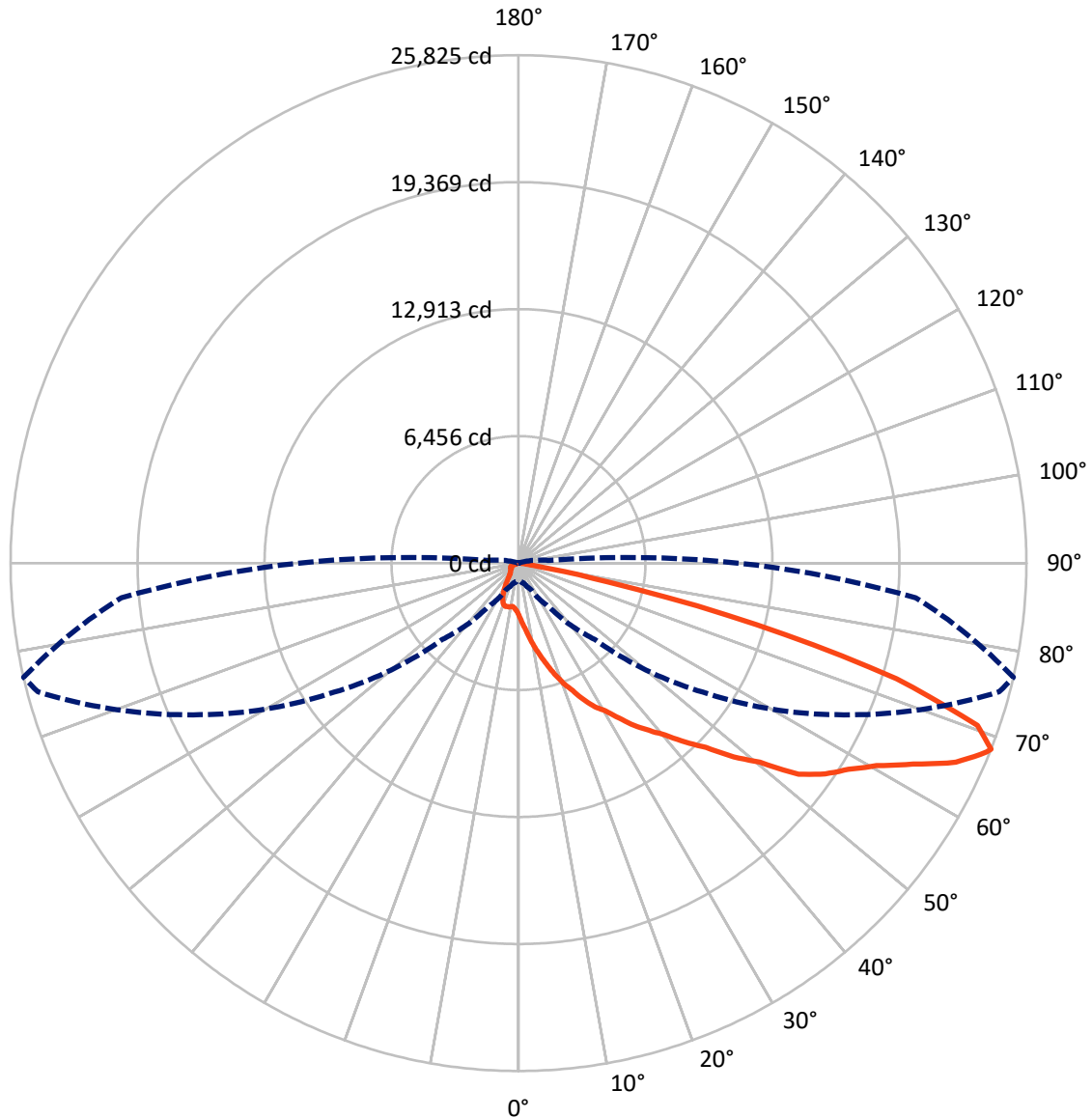
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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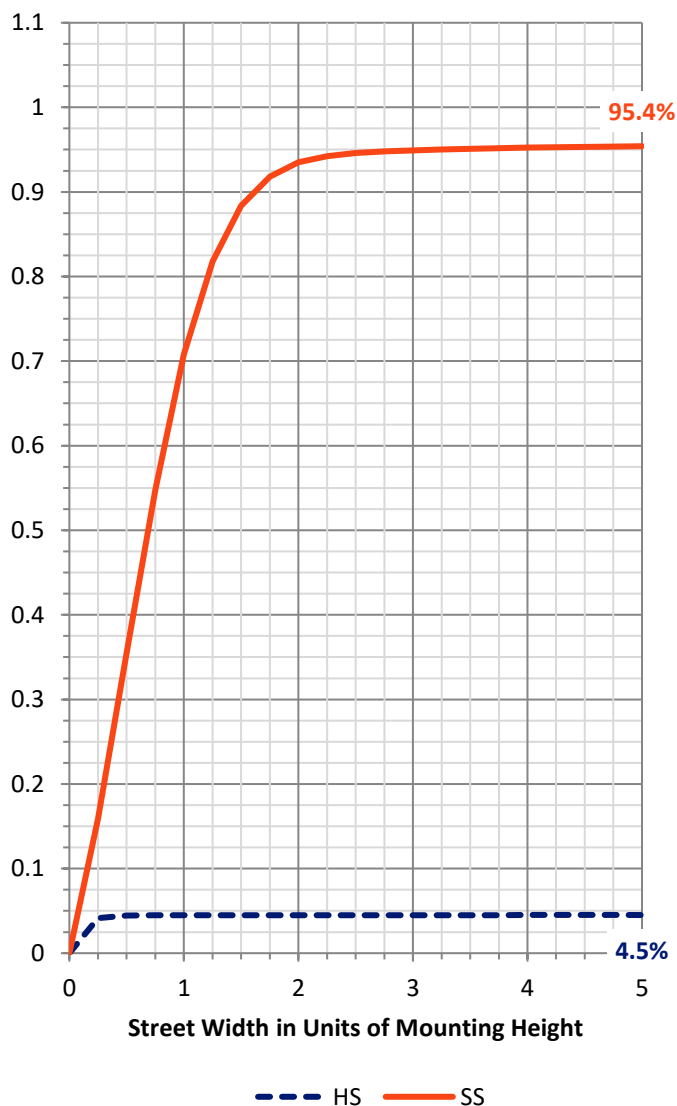
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.3	0.0	1252.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	26362.6	0.0	26362.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	27614.9	0.0	27614.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.1
10°-20°	1139.3	4.1
20°-30°	2208.0	8.0
30°-40°	3849.2	13.9
40°-50°	5637.5	20.4
50°-60°	6623.2	24.0
60°-70°	5592.7	20.3
70°-80°	2167.9	7.9
80°-90°	88.1	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°	27614.9	100.0
0°-180°	27614.9	100.0

Coefficient of Utilization



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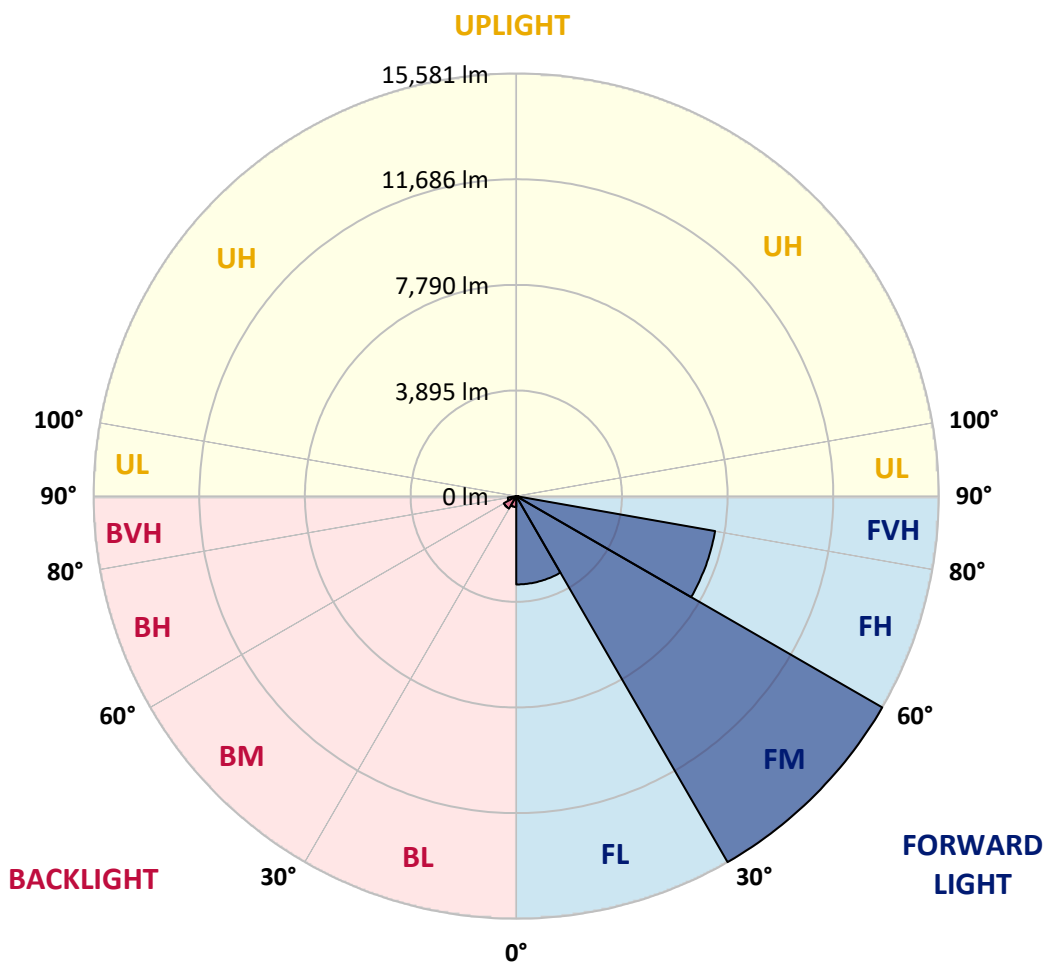
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3256.0	11.8			
FM (30°-60°)	15580.8	56.4			
FH (60°-80°)	7444.4	27.0			G3/7500
FVH (80°-90°)	81.3	0.3			G1/100
BL (0°-30°)	400.1	1.4	B1/500		
BM (30°-60°)	529.2	1.9	B1/1000		
BH (60°-80°)	316.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2
2.5°	4017.6	3941.5	3861.6	3838.8	3690.4	3523.0	3367.0	3214.9	2959.9	2963.8	2788.7
5°	5178.0	5082.9	5018.2	5003.0	4770.9	4481.8	4245.9	3816.0	3393.7	3298.6	2979.0
7.5°	6133.0	6102.5	6007.4	5927.5	5756.3	5402.5	5124.7	4508.4	3865.4	3758.9	3211.0
10°	6711.2	6756.9	6798.7	6696.0	6562.9	6308.0	5927.5	5261.7	4401.9	4268.7	3511.6
12.5°	7327.6	7251.5	7278.1	7361.8	7186.8	7129.7	6658.0	6037.8	5029.6	4774.7	3892.1
15°	7487.4	7517.8	7582.5	7826.0	7943.9	7780.3	7373.2	6665.6	5680.2	5326.4	4245.9
17.5°	7593.9	7578.7	7658.6	8023.8	8202.6	8358.6	8103.7	7365.6	6247.1	5931.3	4687.2
20°	7727.1	7643.4	7818.4	8050.4	8465.1	8792.3	8780.9	8069.5	6840.6	6505.8	5124.7
22.5°	8221.7	8157.0	8297.7	8320.6	8609.7	9066.3	9176.6	8644.0	7449.3	7038.4	5596.5
25°	9134.7	9252.7	9085.3	8940.7	9028.2	9328.8	9408.7	9153.8	8061.9	7685.2	6068.3
27.5°	10470.1	10454.9	10123.9	9937.5	9728.3	9690.2	9747.3	9629.3	8545.0	8274.9	6456.3
30°	11904.5	11778.9	11474.6	11025.6	10565.3	10279.9	10200.0	10078.3	9111.9	8720.1	6840.6
32.5°	13045.8	13114.3	12775.7	12189.8	11425.1	11040.8	10656.6	10523.4	9735.9	9389.7	7281.9
35°	14095.9	14004.6	13734.5	13239.9	12555.0	11934.9	11333.8	11048.4	10485.4	10143.0	7768.9
37.5°	14872.0	14986.2	14472.5	14000.8	13319.8	12806.1	12216.4	11592.5	11257.7	10801.1	8362.4
40°	15606.3	15427.5	15081.3	14647.6	14016.0	13624.1	13236.1	12262.1	12079.5	11489.8	9032.0
42.5°	15476.9	15488.4	15298.1	14948.1	14491.6	14267.1	14133.9	13076.3	12825.2	12448.5	9686.4
45°	14948.1	14993.8	15058.4	14887.2	14925.3	14700.8	15058.4	14012.2	13764.9	13365.4	10439.7
47.5°	14366.0	14442.1	14426.9	14738.9	15092.7	15168.8	16062.9	15050.8	14944.3	14723.6	11482.2
50°	13399.7	13430.1	13723.0	14289.9	14773.1	15568.3	16816.2	16184.6	16348.2	15914.5	12722.4
52.5°	11748.5	11858.8	12612.1	13422.5	14396.5	15769.9	17326.0	17870.0	18284.7	17839.6	13913.3
55°	9659.8	9812.0	10553.8	12071.9	13498.6	15465.5	17790.1	18760.3	19601.1	18927.7	14636.1
57.5°	7772.7	7787.9	8453.7	10021.2	12224.1	14868.2	18026.0	19194.0	20324.0	19783.7	15518.8
60°	5923.7	5862.8	6460.1	7818.4	10078.3	13399.7	17436.3	19414.7	21225.6	20913.7	16580.3
62.5°	3812.2	3717.1	4367.6	5691.6	7871.6	10953.3	16256.9	19418.5	22633.3	22515.4	18357.0
65°	1887.1	1822.4	2381.7	3488.8	5448.1	8377.6	14575.3	19346.2	24353.0	24429.1	20088.1
67.5°	996.8	1019.6	1198.4	1769.1	3142.6	5919.9	12041.4	18497.8	25231.8	25658.0	20506.6
68°	916.9	924.5	1065.3	1472.4	2727.9	5490.0	11440.3	18250.5	25300.3	25825.4	20274.5
70°	745.7	757.1	806.6	924.5	1476.2	3572.5	8826.6	16150.4	24269.3	24748.7	18353.2
72.5°	593.5	627.8	658.2	707.6	867.4	1875.6	5490.0	12585.5	20050.0	20103.3	14286.1
75°	452.7	479.4	540.2	582.1	677.2	1031.0	2613.7	7673.8	13156.2	12509.4	8415.7
77.5°	350.0	372.8	399.5	456.5	566.9	696.2	799.0	3256.7	5588.9	4599.7	2377.8
80°	209.3	224.5	312.0	357.6	494.6	471.8	315.8	905.5	1133.8	894.1	433.7
82.5°	121.7	133.2	178.8	273.9	346.2	254.9	186.4	281.5	277.7	243.5	144.6
85°	3.8	7.6	98.9	163.6	121.7	68.5	114.1	117.9	98.9	91.3	64.7
87.5°	0.0	3.8	26.6	22.8	26.6	15.2	22.8	30.4	38.0	34.2	26.6
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°	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2
2.5°	2670.8	2587.1	2400.7	2259.9	2107.7	2016.4	1925.1	1868.0	1837.6	1818.6	1833.8
5°	2739.3	2564.3	2263.7	1997.4	1822.4	1704.4	1586.5	1525.6	1468.6	1438.1	1457.1
7.5°	2891.5	2629.0	2130.6	1841.4	1636.0	1453.3	1305.0	1187.0	1118.5	1057.7	1069.1
10°	3077.9	2667.0	2134.4	1750.1	1453.3	1164.2	954.9	806.6	722.9	669.6	665.8
12.5°	3268.1	2815.4	2149.6	1658.8	1228.9	875.0	627.8	517.4	468.0	441.3	441.3
15°	3557.3	2948.5	2111.5	1491.4	932.1	570.7	429.9	391.9	372.8	350.0	353.8
17.5°	3808.4	3161.6	2092.5	1240.3	639.2	410.9	357.6	315.8	296.8	273.9	273.9
20°	4147.0	3294.7	1989.8	958.7	441.3	342.4	289.1	251.1	220.7	201.6	205.4
22.5°	4455.1	3397.5	1807.2	654.4	338.6	270.1	213.1	175.0	148.4	125.6	129.4
25°	4789.9	3500.2	1540.8	403.3	239.7	167.4	114.1	83.7	57.1	41.9	41.9
27.5°	5029.6	3530.6	1194.6	239.7	144.6	76.1	26.6	3.8	0.0	0.0	0.0
30°	5273.1	3542.0	825.6	129.4	57.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5550.9	3538.2	517.4	68.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	5763.9	3473.6	247.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6087.3	3378.4	76.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6456.3	3207.2	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6787.3	3032.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7164.0	2815.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7826.0	2724.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8689.6	2651.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9222.3	2438.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9500.0	2218.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9910.9	2111.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10519.6	2119.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11470.7	2225.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11995.8	2119.1	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11550.6	1696.8	72.3	19.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	11166.4	1559.9	72.3	19.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	9229.9	1015.8	68.5	19.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6722.7	563.1	57.1	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	3911.1	281.5	41.9	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1019.6	140.8	34.2	19.0	11.4	3.8	0.0	0.0	0.0	0.0	0.0
80°	201.6	91.3	30.4	22.8	15.2	7.6	0.0	0.0	0.0	0.0	0.0
82.5°	95.1	64.7	30.4	22.8	19.0	11.4	3.8	0.0	0.0	0.0	0.0
85°	49.5	30.4	30.4	22.8	22.8	15.2	7.6	0.0	0.0	0.0	0.0
87.5°	22.8	11.4	11.4	11.4	11.4	7.6	3.8	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)