

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: P480834

Luminaire Tested: **IFLD-L-SA7B-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480834
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

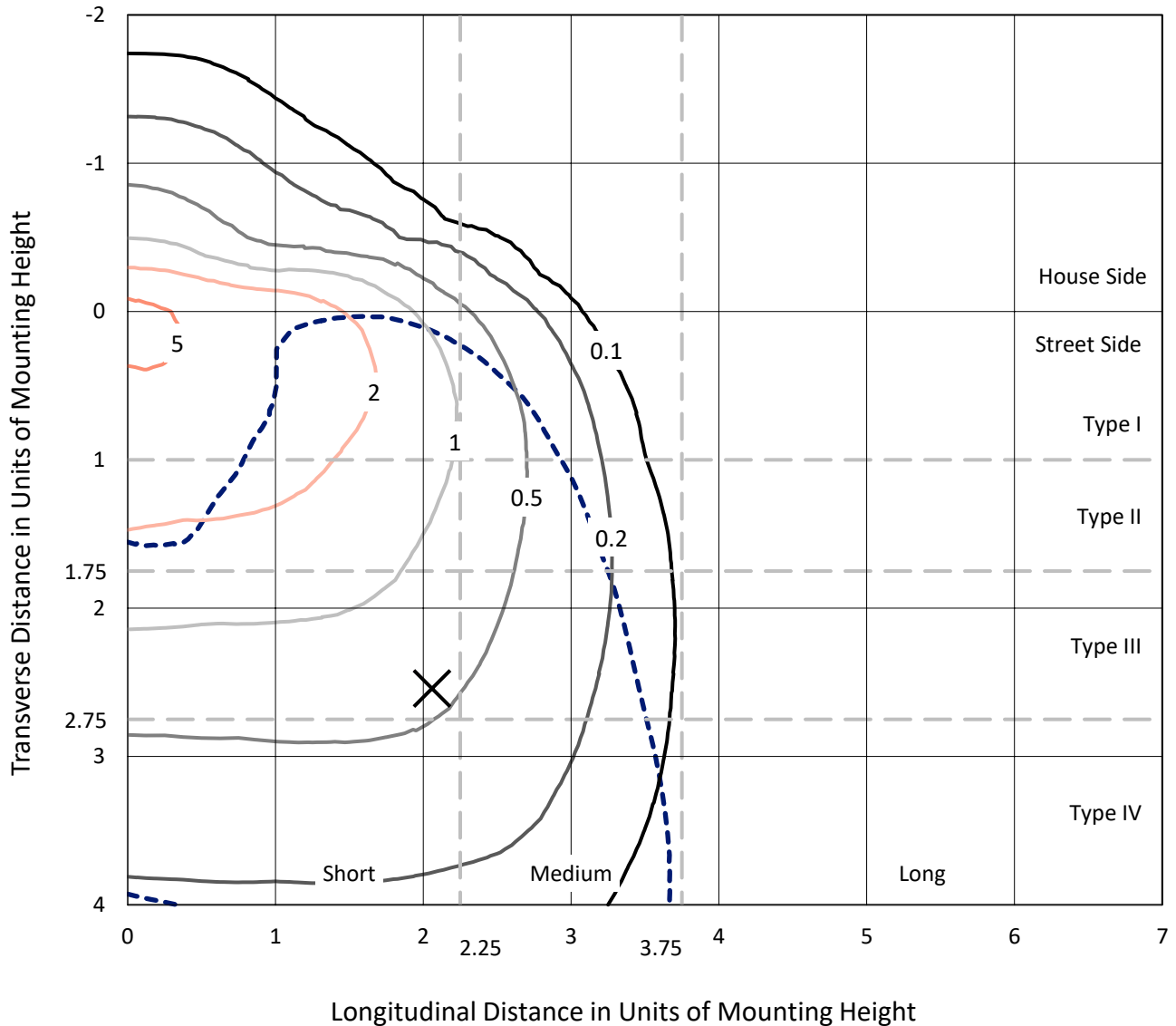
Lumens per Lamp: N/A
Luminaire Lumens: 31367.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

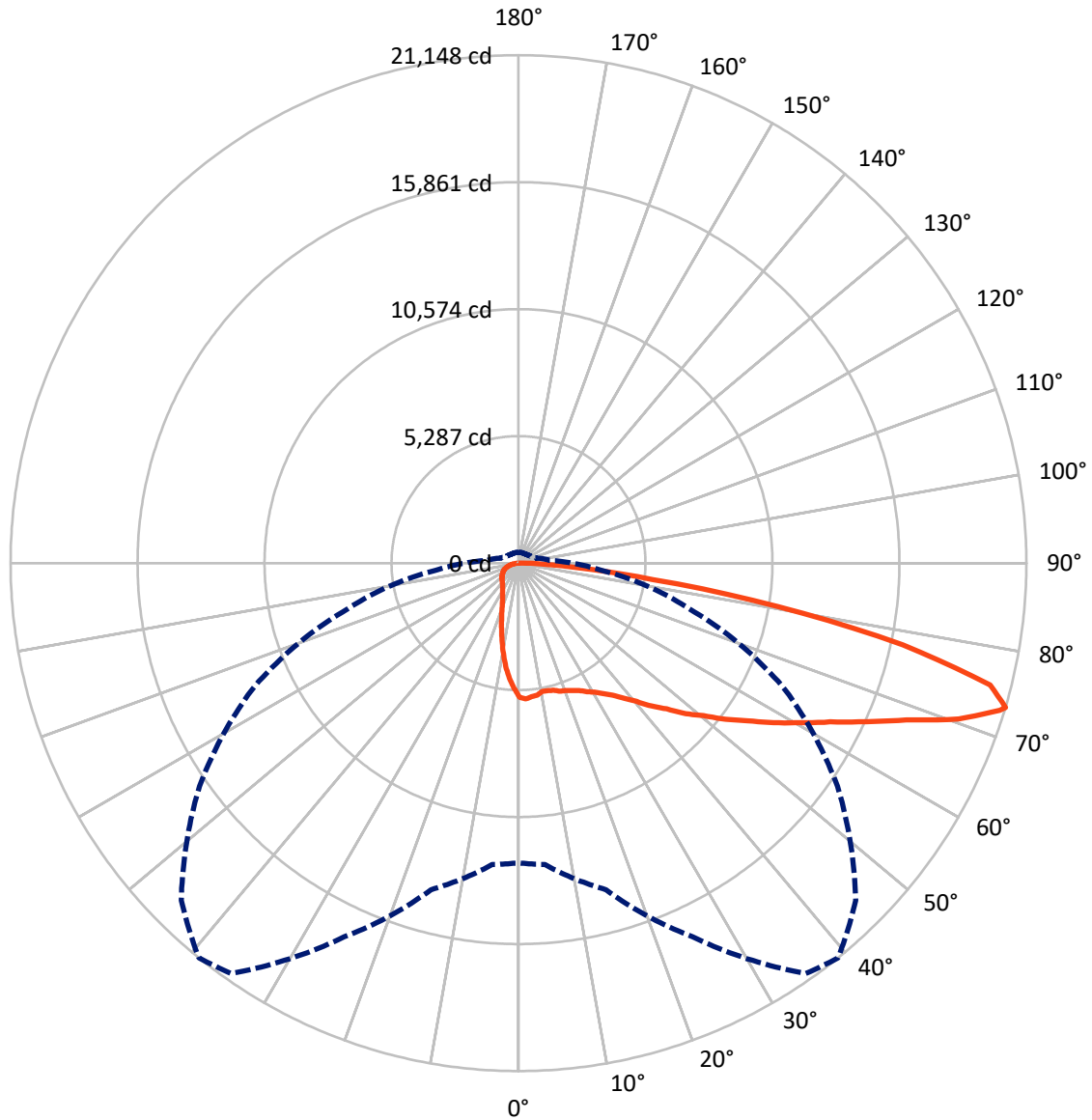
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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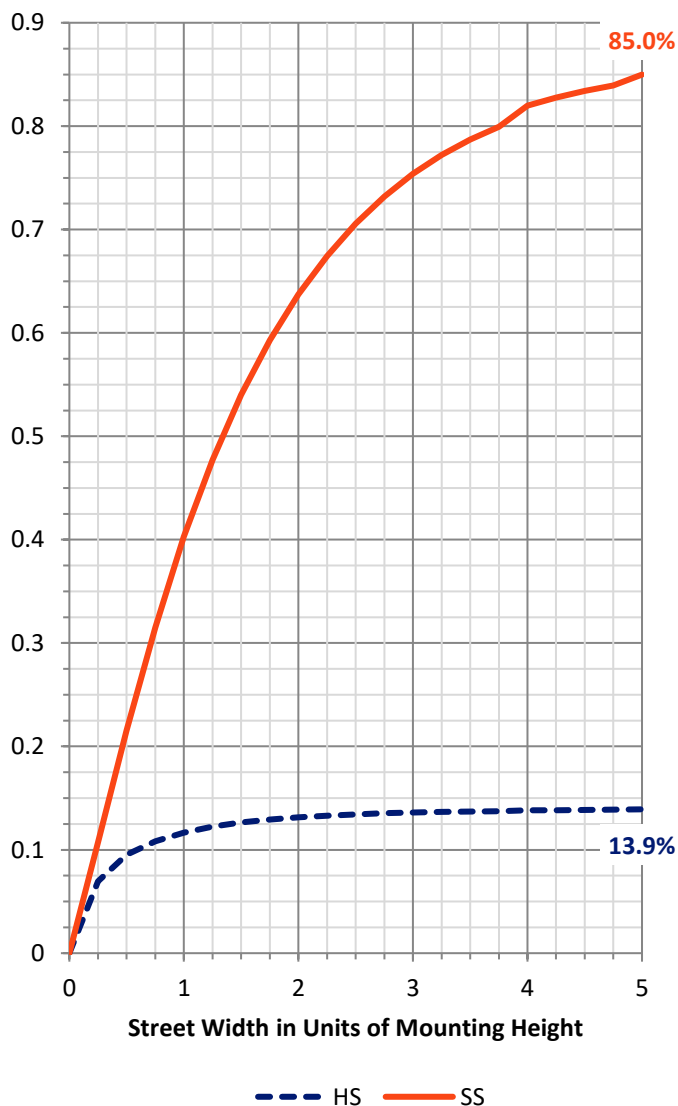
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4409.4	0.0	4409.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26957.9	0.0	26957.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	31367.3	0.0	31367.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	1.5
10°-20°	1232.2	3.9
20°-30°	1882.9	6.0
30°-40°	2745.3	8.8
40°-50°	4148.5	13.2
50°-60°	6007.2	19.2
60°-70°	7632.4	24.3
70°-80°	6187.3	19.7
80°-90°	1046.9	3.3
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°	31367.3	100.0
0°-180°	31367.3	100.0

Coefficient of Utilization



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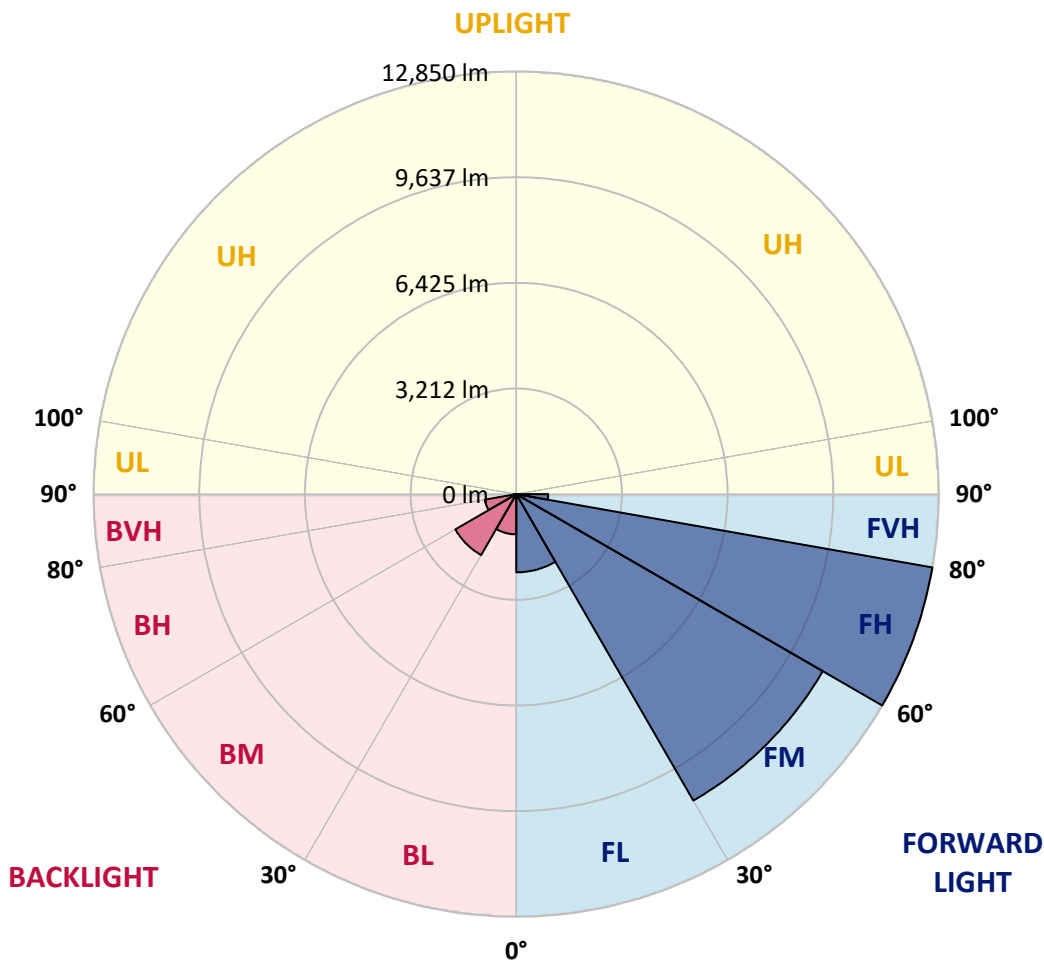
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.9	7.6			
FM (30°-60°)	10761.0	34.3			
FH (60°-80°)	12849.9	41.0			G5
FVH (80°-90°)	970.1	3.1			G5
BL (0°-30°)	1222.8	3.9	B3/2500		
BM (30°-60°)	2140.0	6.8	B2/2500		
BH (60°-80°)	969.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	76.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6
2.5°	5716.9	5657.3	5667.8	5646.7	5667.8	5667.8	5650.3	5597.6	5650.3	5597.6	5583.6
5°	5639.7	5639.7	5674.8	5622.2	5629.2	5629.2	5629.2	5590.6	5555.5	5467.8	5443.2
7.5°	5615.2	5611.6	5615.2	5541.5	5576.6	5576.6	5520.4	5478.3	5408.1	5351.9	5271.2
10°	5446.7	5481.8	5443.2	5464.2	5492.3	5492.3	5425.6	5415.1	5383.5	5309.8	5260.7
12.5°	5355.5	5415.1	5436.2	5418.6	5443.2	5443.2	5429.2	5415.1	5376.5	5327.4	5187.0
15°	5394.1	5323.9	5383.5	5499.3	5474.8	5474.8	5495.8	5481.8	5464.2	5373.0	5281.8
17.5°	5404.6	5362.5	5488.8	5513.4	5545.0	5545.0	5566.0	5562.5	5495.8	5432.7	5299.3
20°	5429.2	5411.6	5513.4	5643.2	5646.7	5646.7	5678.3	5625.7	5590.6	5481.8	5278.2
22.5°	5520.4	5580.1	5674.8	5731.0	5762.6	5762.6	5769.6	5664.3	5625.7	5537.9	5376.5
25°	5794.1	5731.0	5864.3	5931.0	5885.4	5885.4	5850.3	5755.5	5713.4	5636.2	5422.1
27.5°	5994.2	5990.7	6067.9	6159.1	6036.3	6036.3	5973.1	5945.0	5850.3	5808.2	5502.9
30°	6267.9	6345.1	6341.6	6369.7	6208.3	6208.3	6124.0	6071.4	6018.7	6043.3	5741.5
32.5°	6618.9	6590.8	6636.4	6615.4	6453.9	6453.9	6345.1	6264.4	6282.0	6355.7	6067.9
35°	6843.5	6815.4	6832.9	6832.9	6783.8	6783.8	6699.6	6594.3	6678.5	6815.4	6432.9
37.5°	7085.6	7120.7	7222.5	7201.4	7138.3	7138.3	7131.2	7057.5	7166.3	7503.3	7015.4
40°	7299.7	7394.5	7457.6	7499.7	7573.4	7573.4	7633.1	7591.0	7787.5	8328.0	7727.9
42.5°	7524.3	7527.8	7871.7	7903.3	8068.3	8138.5	8184.1	8219.2	8587.7	9191.3	8489.4
45°	7812.1	7829.6	8131.4	8373.6	8629.8	8654.4	8826.3	8942.1	9394.9	10135.4	9317.6
47.5°	8191.1	8170.1	8492.9	8879.0	9198.3	9366.8	9573.8	9700.2	10258.2	11160.1	10223.1
50°	8689.5	8626.3	8812.3	9419.4	9794.9	9980.9	10349.4	10560.0	11212.8	12139.3	10844.3
52.5°	9296.6	9191.3	9338.7	10002.0	10423.1	10798.6	11149.6	11384.7	12065.6	12897.3	11304.0
55°	9938.8	9721.2	9763.4	10619.7	11226.8	11581.3	12062.1	12307.7	13002.6	13578.1	11763.8
57.5°	10574.0	10437.2	10352.9	11212.8	12184.9	12525.3	12967.5	13286.9	13876.5	14181.8	12153.3
60°	11107.5	11072.4	10935.5	12132.2	13199.1	13490.4	13953.7	14150.2	14595.9	14739.8	12160.3
62.5°	11546.2	11426.8	11644.4	12872.7	14230.9	14560.8	15069.7	15087.2	15403.1	15087.2	11802.4
65°	11890.1	11897.1	12244.5	13767.7	15424.1	15911.9	16322.6	16276.9	16073.4	14880.2	10956.6
67.5°	12202.4	12335.8	12844.7	14750.3	16957.8	17417.5	17873.7	17270.1	16255.9	13911.5	9303.6
70°	12448.1	12581.5	13655.4	15947.0	18765.1	19439.0	19540.7	17663.2	15417.1	11784.8	7018.9
72.5°	12420.0	12662.2	14115.1	16901.6	20369.0	20951.6	20130.3	16557.7	12844.7	8215.7	4095.6
73°	12479.7	12599.0	14076.5	17168.3	20856.8	21148.1	19856.6	16210.3	12114.7	7369.9	3463.8
75°	11328.6	11732.2	13378.1	16733.2	20333.9	20281.2	18284.4	13508.0	8612.2	3870.9	1677.5
77.5°	8380.6	8636.8	10542.5	13760.6	16691.1	16354.1	13792.2	8633.3	4088.5	1435.4	905.4
80°	4095.6	4295.6	5587.1	7945.4	10914.5	10942.5	8559.6	4492.1	1751.2	810.7	617.7
82.5°	2046.0	2165.3	2684.7	3491.9	5369.5	5625.7	4341.2	2554.9	1084.4	459.7	350.9
85°	1337.1	1421.3	1653.0	1709.1	2277.6	2404.0	2021.5	1993.4	705.4	249.2	284.3
87.5°	887.9	901.9	1014.2	863.3	912.5	877.4	975.6	1256.4	207.1	105.3	77.2
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°	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6	5583.6
2.5°	5566.0	5516.9	5464.2	5390.5	5337.9	5257.2	5183.5	5151.9	5144.9	5148.4	5113.3
5°	5422.1	5351.9	5246.7	5095.8	5008.0	4874.7	4762.4	4702.7	4639.5	4650.1	4622.0
7.5°	5222.1	5144.9	4983.5	4808.0	4590.4	4400.9	4295.6	4148.2	4064.0	4000.8	4035.9
10°	5158.9	5025.6	4783.4	4541.3	4204.3	3955.2	3713.0	3544.6	3428.8	3316.5	3365.6
12.5°	5127.3	4994.0	4657.1	4299.1	3863.9	3484.9	3144.5	2937.4	2772.5	2674.2	2712.8
15°	5099.3	4934.3	4537.7	4032.4	3544.6	3046.2	2663.7	2390.0	2232.0	2137.3	2147.8
17.5°	5137.9	4902.7	4362.3	3772.7	3193.6	2660.2	2235.5	1951.3	1789.8	1730.2	1716.1
20°	5099.3	4867.6	4190.3	3513.0	2842.7	2291.7	1884.6	1649.5	1537.1	1488.0	1477.5
22.5°	5113.3	4783.4	4011.3	3225.2	2516.3	1982.9	1649.5	1470.5	1382.7	1358.2	1365.2
25°	5180.0	4734.3	3832.3	2909.4	2193.4	1754.7	1498.5	1361.7	1298.5	1273.9	1281.0
27.5°	5229.1	4776.4	3670.9	2611.0	1919.7	1551.2	1372.2	1281.0	1238.8	1221.3	1217.8
30°	5351.9	4801.0	3513.0	2344.3	1695.1	1417.8	1284.5	1210.8	1182.7	1172.2	1168.7
32.5°	5534.4	4846.6	3330.5	2098.7	1530.1	1291.5	1214.3	1151.1	1144.1	1133.6	1137.1
35°	5832.7	5004.5	3126.9	1888.1	1372.2	1207.3	1140.6	1098.5	1098.5	1098.5	1109.0
37.5°	6260.9	5225.6	2944.4	1688.1	1270.4	1133.6	1077.4	1063.4	1056.4	1066.9	1073.9
40°	6811.9	5492.3	2797.0	1530.1	1182.7	1084.4	1035.3	1028.3	1024.8	1021.3	1028.3
42.5°	7415.5	5832.7	2670.7	1407.3	1119.5	1031.8	996.7	989.7	975.6	982.7	993.2
45°	8015.6	6253.9	2558.4	1309.0	1077.4	1003.7	954.6	951.1	944.0	940.5	958.1
47.5°	8682.4	6668.0	2523.3	1249.4	1045.8	961.6	926.5	923.0	901.9	898.4	912.5
50°	9201.8	6973.3	2561.9	1221.3	1000.2	930.0	905.4	887.9	870.3	852.8	852.8
52.5°	9559.8	7183.9	2590.0	1200.2	975.6	887.9	856.3	849.3	831.7	814.2	807.2
55°	9882.7	7310.2	2597.0	1203.7	951.1	838.8	817.7	814.2	803.7	775.6	768.6
57.5°	9991.5	7257.6	2456.6	1172.2	937.0	807.2	779.1	786.1	772.1	747.5	744.0
60°	9980.9	6892.6	2137.3	1130.1	905.4	772.1	737.0	758.0	758.0	730.0	726.5
62.5°	9373.8	6050.3	1747.7	1049.3	870.3	737.0	698.4	730.0	740.5	723.0	719.4
65°	8113.9	4927.3	1459.9	968.6	817.7	698.4	659.8	694.9	712.4	705.4	701.9
67.5°	6713.6	3769.2	1214.3	863.3	751.0	645.7	614.2	638.7	649.3	652.8	656.3
70°	4744.8	2509.3	1014.2	747.5	659.8	589.6	554.5	558.0	554.5	565.0	565.0
72.5°	2579.5	1445.9	824.7	635.2	568.5	512.4	487.8	470.3	470.3	466.8	466.8
73°	2207.5	1298.5	786.1	617.7	544.0	498.3	470.3	456.2	456.2	452.7	449.2
75°	1238.8	951.1	673.8	529.9	470.3	435.2	414.1	393.1	389.6	389.6	389.6
77.5°	814.2	740.5	536.9	424.6	379.0	347.4	340.4	319.4	319.4	319.4	315.9
80°	610.6	582.6	414.1	322.9	291.3	266.7	259.7	245.7	242.2	228.1	231.6
82.5°	407.1	459.7	301.8	228.1	196.5	182.5	182.5	179.0	168.5	150.9	150.9
85°	322.9	375.5	217.6	140.4	115.8	98.3	101.8	98.3	94.8	77.2	73.7
87.5°	59.7	150.9	63.2	38.6	28.1	17.5	17.5	10.5	7.0	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)