

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: P478963

Luminaire Tested: **IFLD-L-SA7C-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478963
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

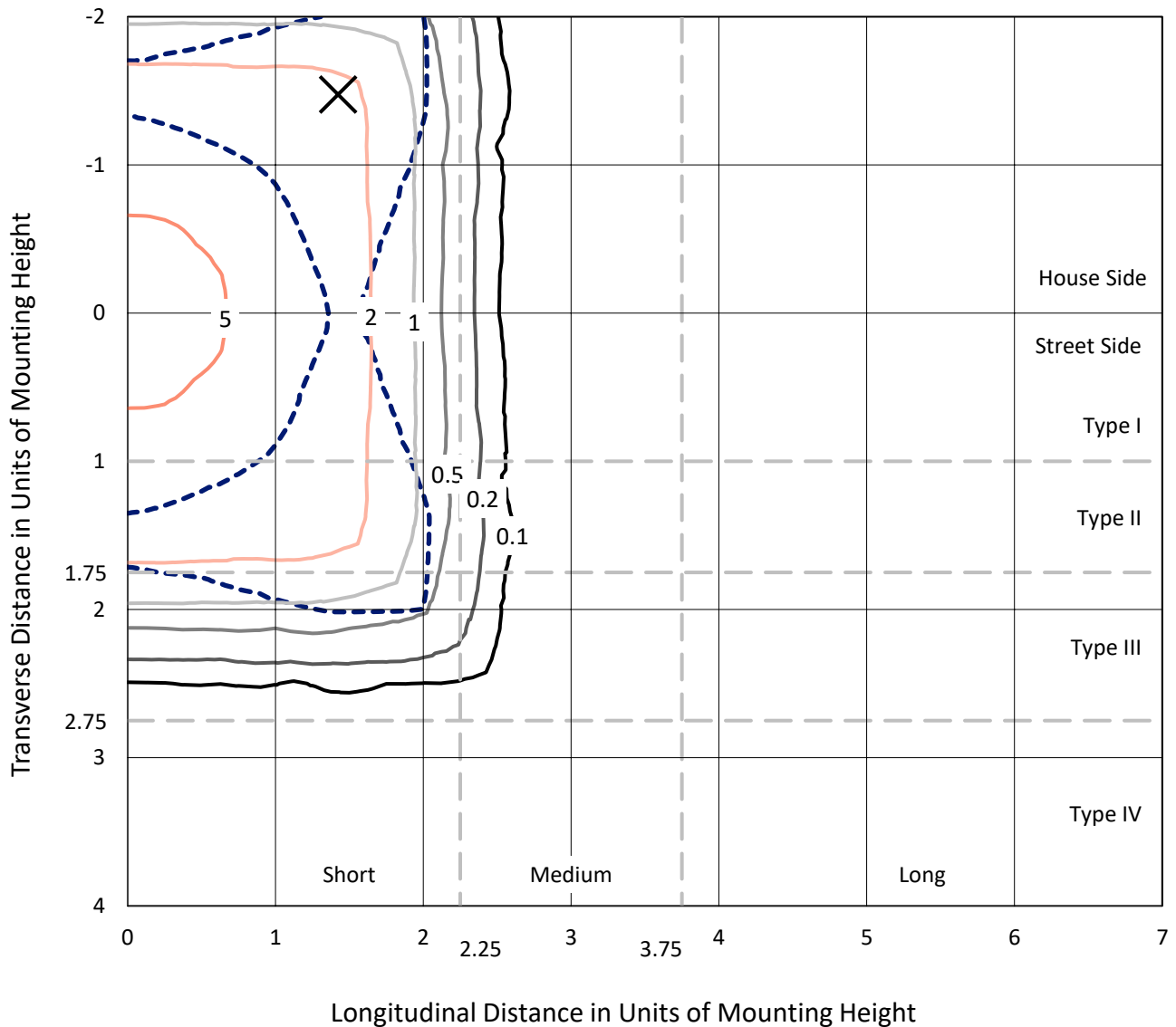
Lumens per Lamp: N/A
Luminaire Lumens: 44214.4 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 369
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

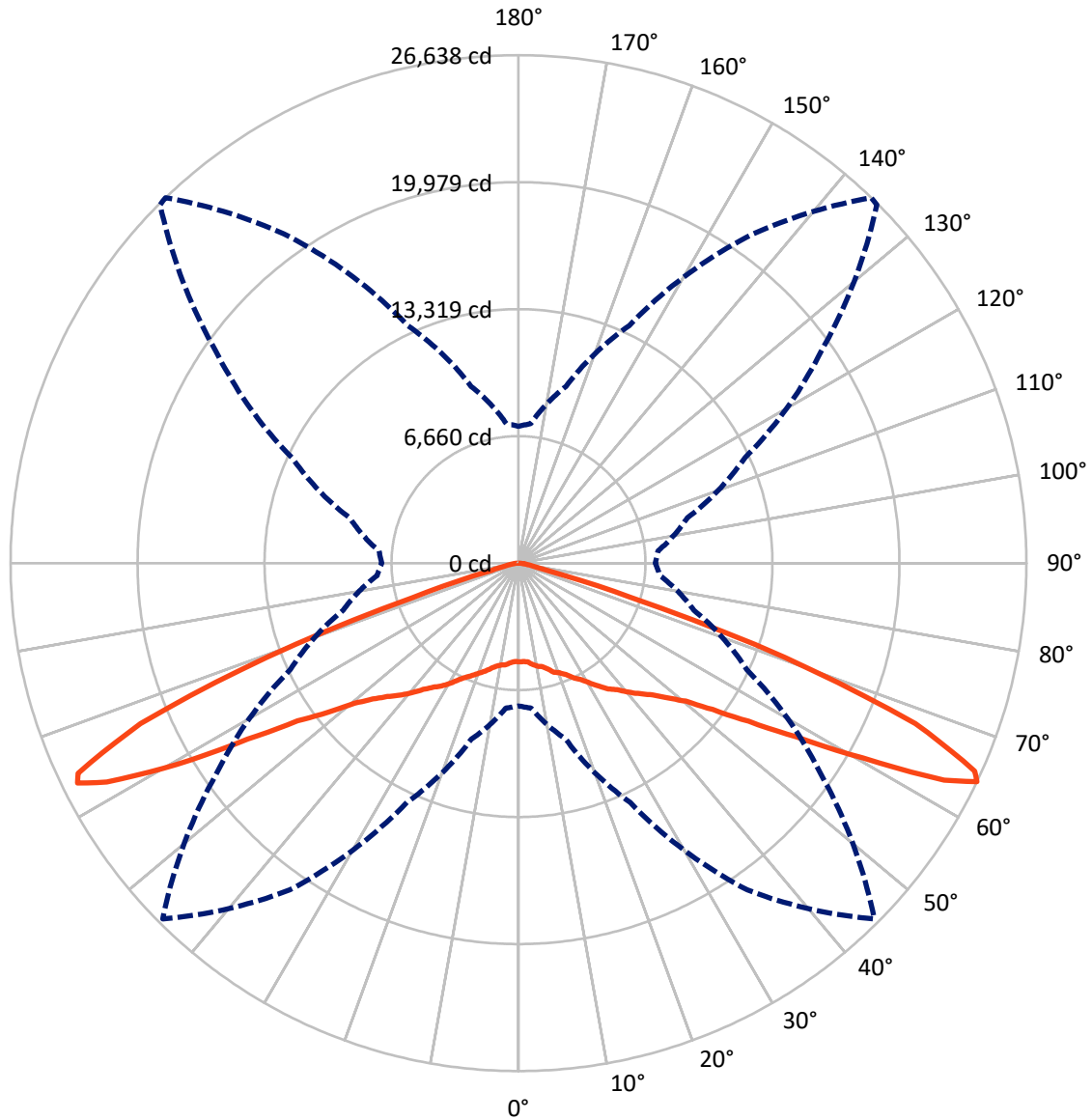
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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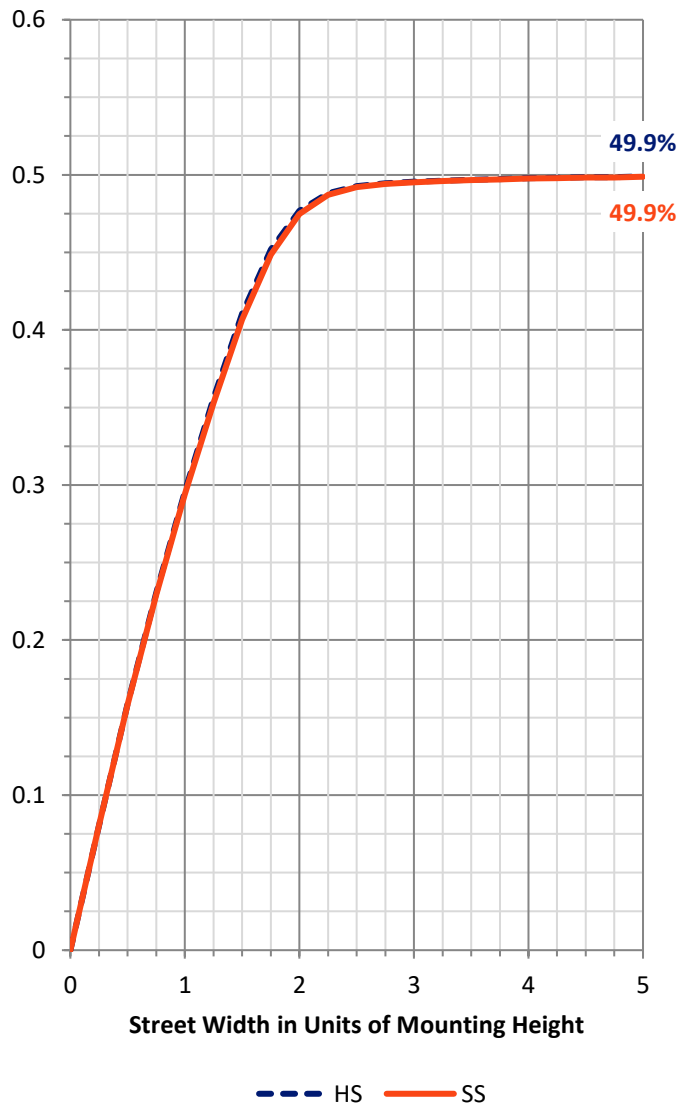
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22128.3	0.0	22128.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22086.1	0.0	22086.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	44214.4	0.0	44214.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.6	1.2
10°-20°	1639.4	3.7
20°-30°	3081.0	7.0
30°-40°	5081.1	11.5
40°-50°	7946.5	18.0
50°-60°	12839.6	29.0
60°-70°	11561.2	26.1
70°-80°	1369.5	3.1
80°-90°	187.5	0.4
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°	44214.4	100.0
0°-180°	44214.4	100.0

Coefficient of Utilization



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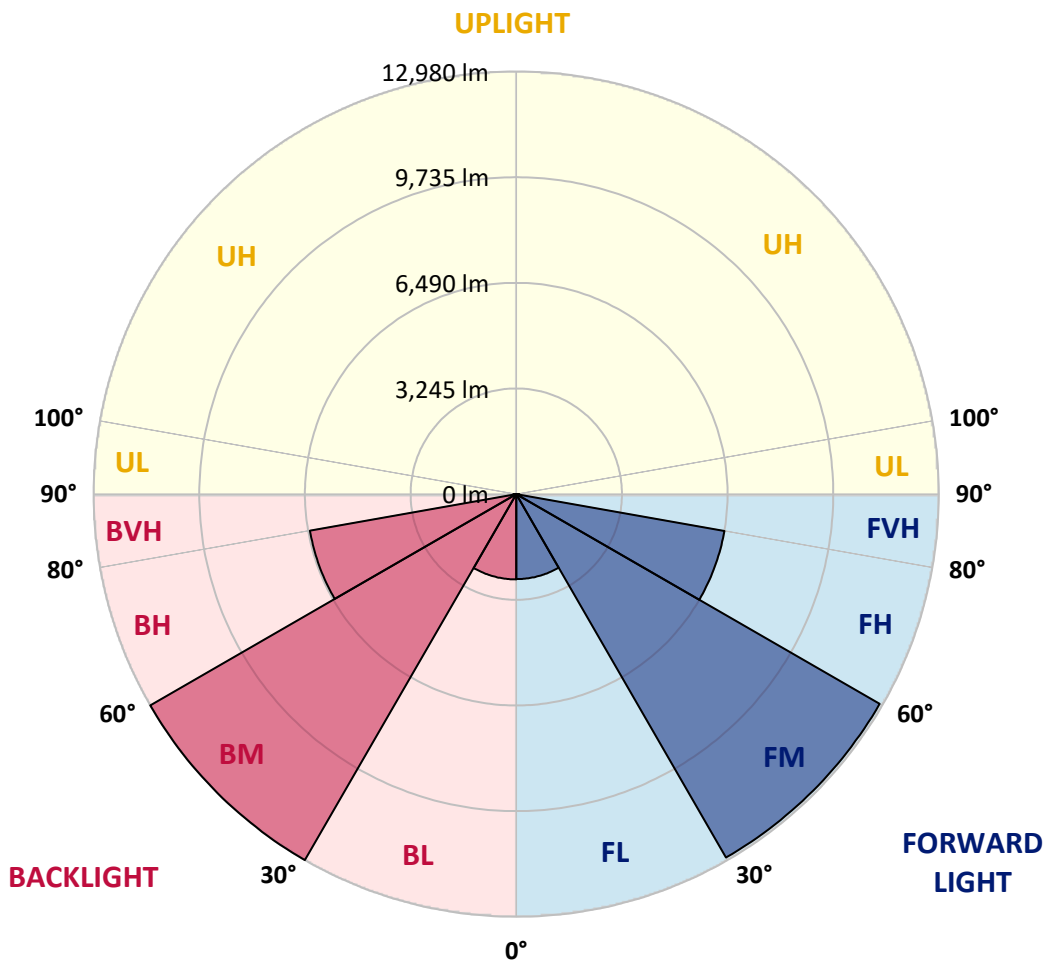
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.5	5.9			
FM (30°-60°)	12887.1	29.1			
FH (60°-80°)	6493.4	14.7			G3/7500
FVH (80°-90°)	96.2	0.2			G1/100
BL (0°-30°)	2619.5	5.9	B4/5000		
BM (30°-60°)	12980.1	29.4	B5		
BH (60°-80°)	6437.3	14.6	B5		G3/7500
BVH (80°-90°)	91.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6
2.5°	5115.8	5125.9	5217.2	5181.7	5212.1	5156.3	5196.9	5283.1	5181.7	5257.7	5283.1
5°	5171.5	5186.7	5186.7	5222.2	5242.5	5232.4	5257.7	5222.2	5318.6	5278.0	5338.8
7.5°	5374.3	5349.0	5308.4	5338.8	5343.9	5369.3	5394.6	5440.2	5425.0	5389.5	5450.4
10°	5409.8	5389.5	5450.4	5455.5	5430.1	5409.8	5435.2	5435.2	5480.8	5490.9	5490.9
12.5°	5470.7	5490.9	5485.9	5526.4	5531.5	5516.3	5556.9	5632.9	5612.6	5627.8	5592.3
15°	5703.9	5678.5	5673.5	5714.0	5779.9	5683.6	5754.6	5749.5	5729.2	5759.7	5678.5
17.5°	5906.7	5825.6	5861.1	5927.0	5901.6	5921.9	6013.2	5932.0	5952.3	5916.8	5891.5
20°	6084.2	6018.2	6023.3	6048.7	6048.7	6109.5	6145.0	6114.6	6094.3	6089.2	6099.4
22.5°	6281.9	6205.8	6210.9	6317.4	6352.9	6332.6	6307.2	6357.9	6368.1	6327.5	6373.1
25°	6428.9	6510.0	6535.4	6586.1	6510.0	6565.8	6545.5	6641.9	6702.7	6621.6	6677.4
27.5°	6814.2	6778.8	6844.7	6839.6	6900.4	6844.7	6880.2	6910.6	6935.9	6941.0	6915.7
30°	7159.0	7174.2	7108.3	7285.8	7143.8	7235.1	7295.9	7311.1	7341.5	7341.5	7265.5
32.5°	7524.1	7493.6	7600.1	7559.6	7534.2	7605.2	7539.3	7747.2	7625.5	7696.5	7610.3
35°	7934.7	7934.7	7975.3	8086.9	7934.7	7889.1	8010.8	8097.0	8097.0	7970.2	8000.7
37.5°	8396.1	8355.6	8406.3	8548.2	8431.6	8279.5	8502.6	8538.1	8512.7	8477.3	8416.4
40°	8720.6	8710.5	8811.9	8999.5	8832.2	8801.7	8842.3	8938.6	8969.1	9004.5	8923.4
42.5°	9268.2	9313.8	9607.9	9562.3	9425.4	9318.9	9308.8	9668.7	9582.5	9491.3	9445.6
45°	10079.4	10038.9	10191.0	10196.0	10018.6	9785.3	9836.0	10165.6	10312.6	10109.8	10185.9
47.5°	10723.3	10743.6	10850.1	11068.1	10657.4	10414.0	10601.6	11134.0	11088.4	11012.3	11083.3
50°	11585.2	11676.5	12011.1	11935.1	11570.0	11270.9	11681.6	12183.5	12239.3	11960.4	11909.7
52.5°	12776.7	12918.7	13101.2	13162.0	12812.2	12705.7	12731.1	13354.7	13217.8	12949.1	12776.7
55°	13821.2	13887.1	14221.7	14723.6	14698.3	14186.2	14480.3	14713.5	14155.8	13603.1	13648.8
57.5°	14267.3	14297.8	15230.7	16234.5	16832.8	16949.4	16614.8	15828.9	14500.6	13435.8	13369.9
60°	13157.0	13446.0	14571.5	16837.9	19570.7	20919.3	18693.6	15955.7	13694.4	12401.5	12305.2
62.5°	10515.4	10530.7	12203.8	15641.3	21274.3	24808.1	19489.6	14764.2	11544.7	10079.4	9694.1
64°	7488.6	7630.5	9552.1	13846.5	20919.3	26390.0	19393.2	13207.7	9516.6	7437.9	7169.2
65°	5374.3	5572.1	7427.7	12021.3	20087.8	26202.4	19104.2	11869.2	7696.5	5678.5	5404.8
67.5°	1977.3	2058.5	2915.3	6013.2	14424.5	22328.8	15139.4	6525.3	3381.8	2408.3	2164.9
70°	917.7	922.8	1079.9	1987.5	6307.2	14931.5	7224.9	2448.9	1272.6	1009.0	938.0
72.5°	674.3	689.5	755.4	917.7	1855.7	6322.4	2372.8	1003.9	745.3	659.1	643.9
75°	547.6	557.7	578.0	664.2	856.9	1693.4	963.3	694.6	593.2	532.4	512.1
77.5°	420.8	420.8	466.5	507.0	567.9	790.9	638.8	552.6	481.7	420.8	405.6
80°	304.2	309.3	365.0	395.5	385.3	522.2	461.4	456.3	395.5	329.6	304.2
82.5°	177.5	192.7	263.6	283.9	273.8	309.3	334.6	354.9	309.3	228.2	207.9
85°	101.4	106.5	152.1	157.2	157.2	147.0	192.7	212.9	207.9	142.0	126.8
87.5°	30.4	30.4	40.6	40.6	45.6	50.7	76.1	91.3	101.4	71.0	65.9
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6	5176.6
2.5°	5257.7	5181.7	5186.7	5207.0	5141.1	5166.5	5242.5	5186.7	5171.5	5141.1	5125.9
5°	5232.4	5313.5	5283.1	5293.2	5278.0	5207.0	5196.9	5242.5	5267.9	5222.2	5313.5
7.5°	5409.8	5374.3	5333.8	5349.0	5313.5	5374.3	5414.9	5323.6	5369.3	5343.9	5293.2
10°	5511.2	5445.3	5475.7	5465.6	5440.2	5501.1	5460.5	5450.4	5409.8	5354.1	5435.2
12.5°	5546.7	5622.8	5673.5	5587.3	5602.5	5572.1	5546.7	5546.7	5501.1	5485.9	5501.1
15°	5703.9	5769.8	5749.5	5815.4	5729.2	5759.7	5790.1	5714.0	5754.6	5643.1	5729.2
17.5°	5992.9	5937.1	6008.1	5921.9	5952.3	6013.2	5916.8	5916.8	5947.3	5886.4	5810.4
20°	6175.4	6150.1	6124.7	6129.8	6079.1	6134.9	6104.4	6089.2	6043.6	6063.9	6104.4
22.5°	6347.8	6312.3	6322.4	6337.7	6373.1	6347.8	6332.6	6347.8	6236.3	6337.7	6195.7
25°	6560.7	6657.1	6626.7	6692.6	6591.2	6657.1	6652.0	6555.7	6616.5	6576.0	6545.5
27.5°	6915.7	6865.0	6910.6	6829.5	6900.4	6905.5	6844.7	7006.9	6935.9	6925.8	6905.5
30°	7372.0	7336.5	7306.1	7260.4	7316.2	7270.6	7321.3	7336.5	7270.6	7219.9	7123.5
32.5°	7630.5	7726.9	7762.4	7650.8	7655.9	7681.2	7635.6	7590.0	7630.5	7645.8	7630.5
35°	7995.6	8086.9	8107.1	8020.9	7975.3	8102.1	8010.8	8162.9	8031.1	8036.2	7899.3
37.5°	8421.5	8446.8	8619.2	8522.9	8482.3	8421.5	8588.8	8568.5	8598.9	8355.6	8477.3
40°	8903.1	8994.4	9090.7	8847.4	8842.3	8898.1	8887.9	9004.5	8948.8	8913.3	8827.1
42.5°	9430.4	9623.1	9638.3	9476.1	9374.7	9364.5	9415.2	9673.8	9678.9	9445.6	9344.2
45°	10130.1	10343.1	10287.3	9972.9	9861.4	9846.2	10094.6	10206.2	10302.5	10211.2	10125.0
47.5°	11002.2	11144.1	11103.6	10814.6	10454.6	10556.0	10799.4	11149.2	11047.8	10926.1	10824.7
50°	11935.1	12102.4	12016.2	11727.2	11382.4	11382.4	11681.6	12127.7	12097.3	11859.0	11767.8
52.5°	12969.4	13212.7	13410.5	12999.8	12710.8	12756.4	13228.0	13390.2	13314.2	13146.8	13070.8
55°	13740.0	14206.5	14612.1	14632.4	14647.6	14642.5	14764.2	14926.5	14383.9	14115.2	13841.4
57.5°	13552.4	14434.6	15823.9	16766.9	17045.8	17192.8	17152.2	16401.9	15119.1	14236.9	14328.2
60°	12213.9	13653.9	15894.8	18921.7	20949.8	20747.0	20006.7	17040.7	14713.5	13222.9	13035.3
62.5°	9744.8	11478.8	14703.4	19530.1	25117.4	25056.6	21183.0	15565.3	12259.6	10373.5	10256.9
64°	7341.5	9166.8	13116.4	19373.0	26577.6	26638.4	20883.9	13750.2	9592.7	7341.5	7164.1
65°	5617.7	7311.1	11559.9	19048.5	26263.3	26298.7	20052.4	11874.2	7290.8	5212.1	5019.4
67.5°	2235.9	3113.1	6271.7	14444.8	22551.9	22455.6	14307.9	5744.5	2788.6	1815.1	1779.6
70°	953.2	1186.4	2200.4	6844.7	15098.8	14820.0	6160.2	1865.8	1034.3	867.0	861.9
72.5°	654.0	725.0	943.0	2114.2	6276.8	6129.8	1754.3	867.0	704.7	649.0	649.0
75°	527.3	578.0	684.5	887.3	1663.0	1602.2	826.4	638.8	562.8	522.2	517.2
77.5°	410.7	461.4	537.4	613.5	760.5	755.4	552.6	481.7	436.0	405.6	395.5
80°	324.5	375.2	425.9	436.0	496.9	486.7	375.2	380.3	354.9	294.1	289.0
82.5°	223.1	304.2	339.7	309.3	294.1	294.1	268.7	268.7	248.4	182.5	167.3
85°	136.9	202.8	212.9	182.5	136.9	136.9	147.0	142.0	131.8	96.3	91.3
87.5°	71.0	96.3	86.2	71.0	45.6	45.6	40.6	30.4	30.4	25.4	25.4
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)