

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: P638130

Luminaire Tested: **IFLD-S-SA2B-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638130
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8662 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 82.4
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: 25 FT



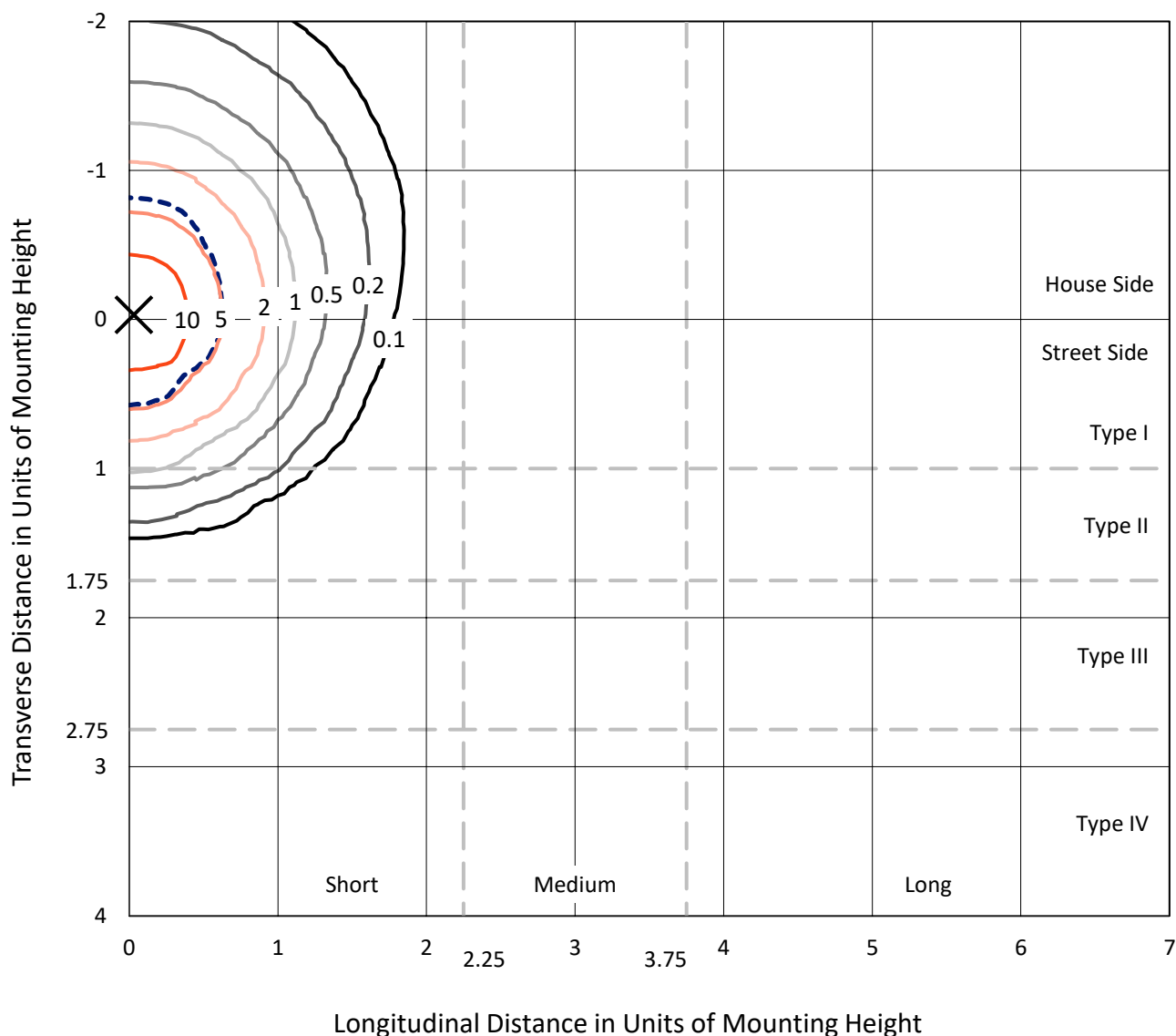
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

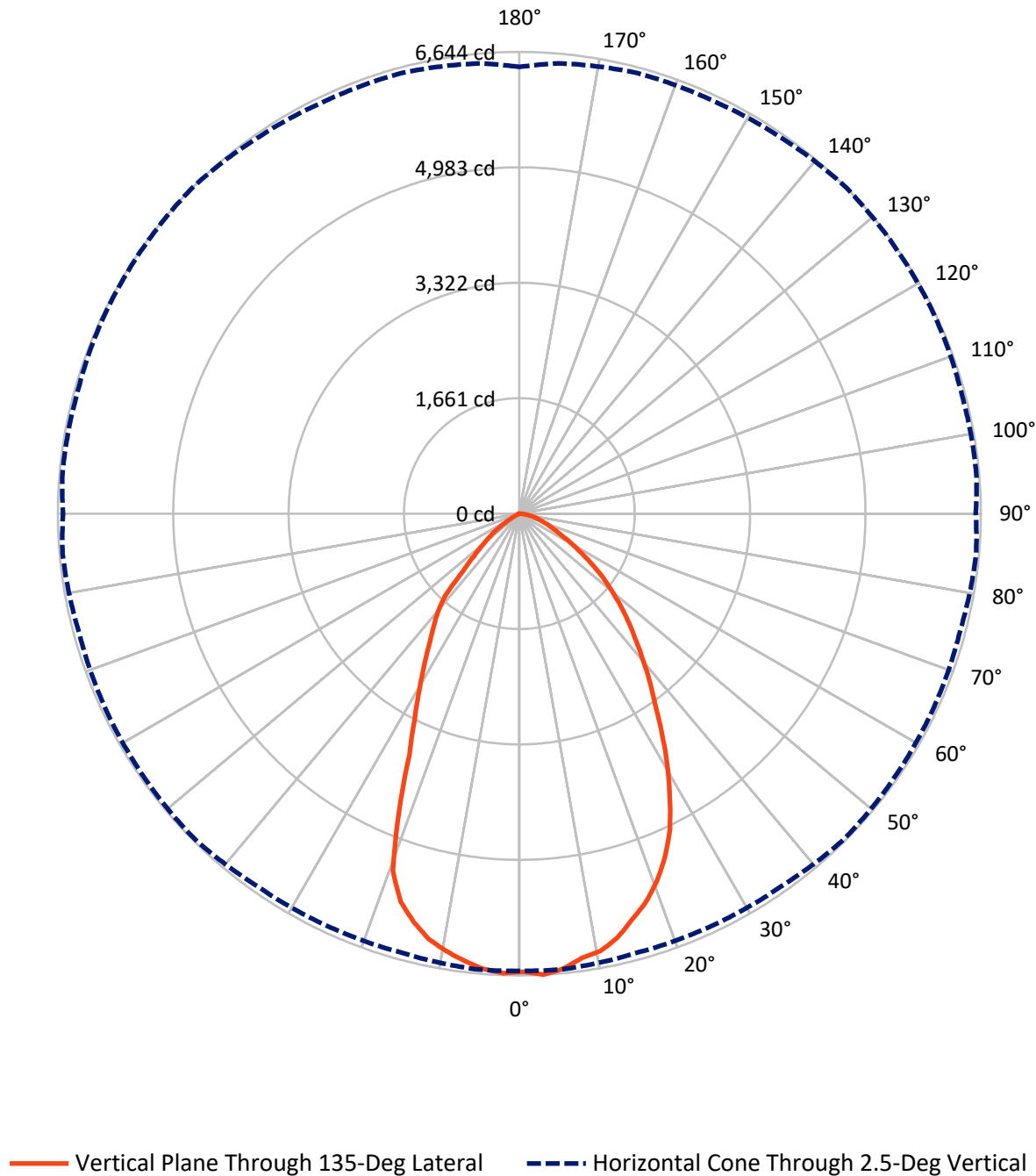


Based on 20 foot mounting height. Maximum calculated value = 16.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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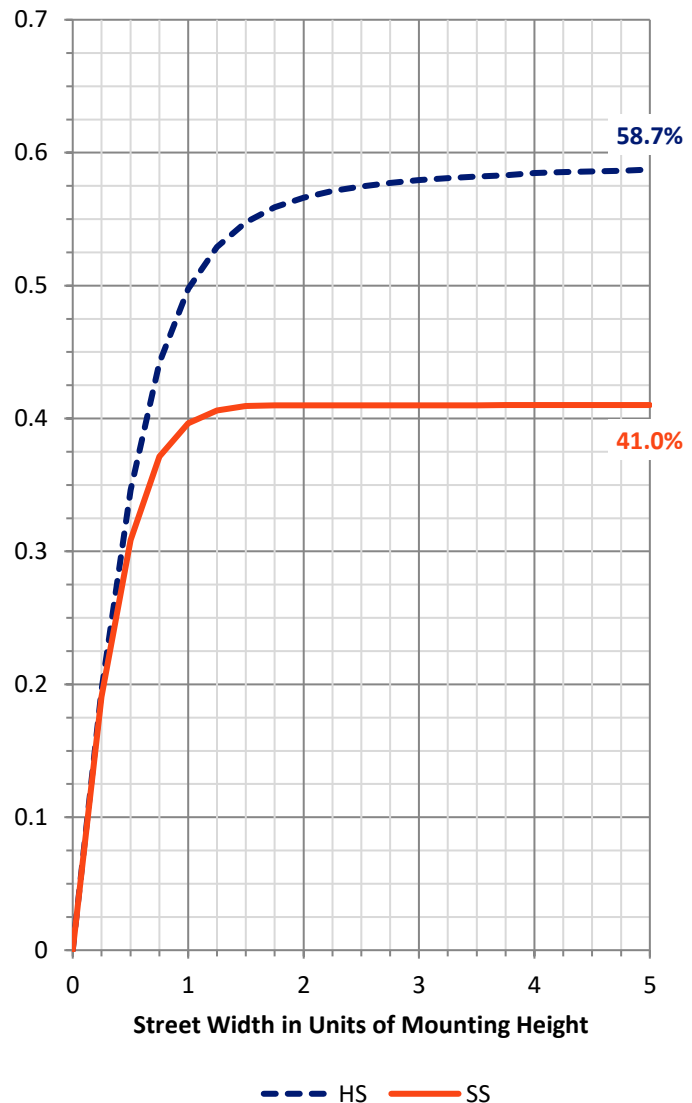
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5130.1	0.0	5130.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3531.9	0.0	3531.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	8662.0	0.0	8662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.2	7.1
10°-20°	1657.8	19.1
20°-30°	2021.7	23.3
30°-40°	1845.8	21.3
40°-50°	1333.9	15.4
50°-60°	728.3	8.4
60°-70°	301.1	3.5
70°-80°	122.0	1.4
80°-90°	33.2	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°	8662.0	100.0
0°-180°	8662.0	100.0

Coefficient of Utilization



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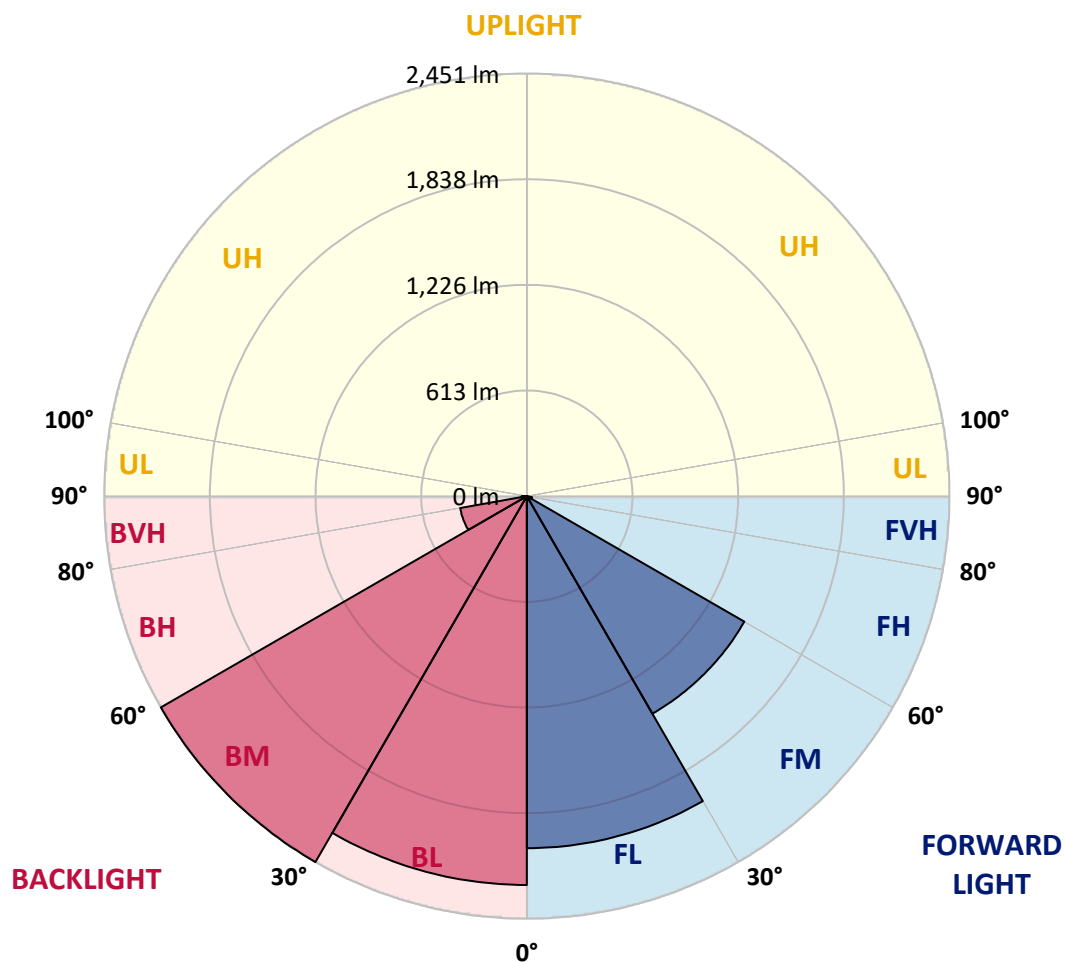
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.0	23.6			
FM	(30°-60°)	1456.8	16.8			
FH	(60°-80°)	30.5	0.4			G0/660
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	2255.7	26.0	B3/2500		
BM	(30°-60°)	2451.3	28.3	B2/2500		
BH	(60°-80°)	392.6	4.5	B1/500		G1/500
BVH	(80°-90°)	30.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8
2.5°	6579.6	6588.1	6541.8	6546.7	6555.2	6617.4	6601.6	6586.9	6566.2	6601.6
5°	6571.1	6575.9	6527.1	6510.1	6517.4	6573.5	6522.3	6522.3	6517.4	6511.3
7.5°	6505.2	6507.6	6469.8	6439.3	6458.8	6484.5	6446.6	6464.9	6438.1	6458.8
10°	6406.4	6390.5	6345.4	6336.9	6358.8	6383.2	6357.6	6374.7	6350.3	6366.1
12.5°	6261.2	6236.8	6200.2	6189.3	6227.1	6260.0	6239.3	6229.5	6197.8	6236.8
15°	5701.3	5683.0	5766.0	5911.1	6041.7	6069.7	6047.8	6057.5	5991.7	6002.6
17.5°	4692.6	4658.4	4747.5	5091.4	5581.8	5840.4	5820.9	5757.5	5659.9	5681.8
20°	4264.4	4254.7	4244.9	4326.6	4669.4	5453.7	5480.6	5319.5	5180.5	5150.0
22.5°	4022.9	4019.2	4009.5	4027.8	4118.0	4621.8	4929.2	4780.4	4687.7	4679.1
25°	3802.1	3796.0	3766.7	3789.9	3789.9	3819.2	4213.2	4303.5	4221.7	4212.0
27.5°	3577.7	3566.7	3561.8	3572.8	3516.7	3319.1	3419.1	3859.4	3816.8	3819.2
30°	3334.9	3331.3	3317.9	3341.0	3167.8	2922.6	2859.2	3456.9	3465.4	3463.0
32.5°	2973.9	2989.7	3050.7	3076.3	2790.9	2588.4	2482.3	2990.9	3165.4	3161.7
35°	2160.3	2160.3	2359.1	2728.7	2445.7	2293.2	2235.9	2536.0	2869.0	2881.2
37.5°	1776.0	1782.1	1821.2	1989.5	2110.3	2056.6	2039.5	2134.6	2488.4	2507.9
40°	1597.9	1597.9	1597.9	1528.4	1524.7	1852.9	1843.1	1812.6	2149.3	2192.0
42.5°	1435.7	1439.4	1441.8	1266.2	1168.6	1601.6	1579.6	1533.3	1845.6	1895.6
45°	1268.6	1274.7	1282.0	1058.8	1016.1	1152.7	1336.9	1285.7	1545.5	1610.1
47.5°	774.6	784.3	950.2	897.8	902.7	889.2	1090.5	1082.0	1267.4	1358.9
50°	523.3	527.0	542.8	569.6	774.6	698.9	772.1	895.3	962.4	1101.5
52.5°	439.1	445.2	406.2	369.6	508.7	546.5	539.2	664.8	691.6	863.6
55°	308.6	328.1	309.8	306.2	289.1	424.5	408.6	511.1	528.2	656.3
57.5°	31.7	36.6	63.4	228.1	189.1	240.3	291.5	374.5	391.6	484.3
60°	2.4	2.4	6.1	31.7	137.8	143.9	201.3	230.5	263.5	337.9
62.5°	0.0	1.2	2.4	4.9	22.0	76.8	101.2	120.8	158.6	218.3
65°	0.0	0.0	1.2	3.7	4.9	29.3	39.0	63.4	86.6	135.4
67.5°	0.0	0.0	1.2	2.4	3.7	7.3	13.4	23.2	46.4	76.8
70°	0.0	0.0	1.2	2.4	3.7	6.1	9.8	14.6	20.7	41.5
72.5°	0.0	0.0	1.2	1.2	2.4	6.1	7.3	9.8	14.6	20.7
75°	0.0	0.0	1.2	1.2	3.7	7.3	6.1	7.3	9.8	13.4
77.5°	0.0	0.0	1.2	2.4	3.7	7.3	6.1	7.3	7.3	8.5
80°	0.0	0.0	1.2	2.4	4.9	8.5	7.3	7.3	6.1	6.1
82.5°	0.0	0.0	1.2	3.7	4.9	11.0	11.0	9.8	4.9	3.7
85°	0.0	0.0	2.4	4.9	7.3	12.2	12.2	9.8	3.7	2.4
87.5°	0.0	0.0	2.4	3.7	6.1	8.5	12.2	9.8	3.7	1.2
90°	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°
6591.8	0°	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8	6591.8
6571.1	2.5°	6604.0	6596.7	6621.1	6630.8	6644.2	6593.0	6561.3	6562.5	6504.0
6496.6	5°	6535.7	6536.9	6568.6	6566.2	6579.6	6551.5	6539.3	6518.6	6467.4
6402.7	7.5°	6449.1	6438.1	6468.6	6491.8	6457.6	6477.1	6449.1	6458.8	6428.3
6319.8	10°	6382.0	6356.4	6384.4	6400.3	6401.5	6382.0	6355.2	6329.5	6318.6
6190.5	12.5°	6233.2	6200.2	6247.8	6269.8	6266.1	6228.3	6197.8	6203.9	6168.5
5963.6	15°	6028.2	6029.5	6063.6	6084.4	6064.8	6056.3	6058.7	6044.1	6013.6
5650.1	17.5°	5714.8	5733.1	5823.3	5873.3	5884.3	5867.2	5858.7	5841.6	5811.1
5150.0	20°	5192.7	5302.5	5463.5	5618.4	5648.9	5644.0	5613.5	5606.2	5589.1
4654.8	22.5°	4734.0	4815.8	5002.4	5243.9	5368.3	5380.5	5343.9	5333.0	5314.7
4212.0	25°	4259.5	4347.4	4515.7	4778.0	5035.3	5087.8	5081.7	5048.7	5029.2
3819.2	27.5°	3859.4	3947.3	4099.7	4336.4	4612.1	4780.4	4796.2	4743.8	4742.6
3469.1	30°	3498.4	3619.1	3735.0	3927.8	4194.9	4447.4	4474.2	4437.6	4441.3
3148.3	32.5°	3215.4	3315.4	3414.2	3543.5	3765.5	4059.5	4164.4	4130.2	4116.8
2881.2	35°	2926.3	2994.6	3095.8	3214.2	3365.4	3657.0	3838.7	3813.1	3799.7
2520.1	37.5°	2597.0	2714.1	2787.2	2920.2	3038.5	3270.3	3526.4	3522.8	3494.7
2212.7	40°	2259.1	2382.3	2493.3	2627.4	2718.9	2903.1	3187.3	3186.1	3189.8
1894.3	42.5°	1952.9	2066.3	2200.5	2346.9	2434.7	2568.9	2873.8	2890.9	2911.7
1632.1	45°	1676.0	1778.5	1902.9	2081.0	2187.1	2263.9	2534.7	2612.8	2611.6
1397.9	47.5°	1427.2	1523.5	1628.4	1801.6	1937.0	2006.6	2231.0	2342.0	2334.7
1146.6	50°	1197.8	1283.2	1393.0	1518.6	1700.4	1761.4	1928.5	2074.9	2063.9
913.6	52.5°	963.6	1082.0	1174.7	1289.3	1480.8	1540.6	1669.9	1812.6	1804.1
685.5	55°	751.4	866.1	978.3	1077.1	1238.1	1327.1	1419.8	1566.2	1563.8
536.7	57.5°	568.4	694.1	800.2	894.1	1022.2	1132.0	1206.4	1339.3	1356.4
367.2	60°	420.8	517.2	631.9	736.8	838.0	951.4	1001.5	1132.0	1139.3
251.3	62.5°	286.7	392.8	505.0	600.1	675.8	792.9	838.0	945.3	958.8
161.0	65°	198.8	267.1	395.2	463.5	556.2	656.3	701.4	786.8	813.6
92.7	67.5°	131.7	190.3	308.6	370.8	462.3	530.6	587.9	657.5	686.7
58.6	70°	72.0	140.3	220.8	292.8	372.0	437.9	494.0	550.1	575.7
26.8	72.5°	48.8	93.9	153.7	231.8	300.1	364.7	414.7	456.2	457.4
15.9	75°	24.4	63.4	117.1	179.3	234.2	297.6	342.8	367.2	337.9
9.8	77.5°	14.6	46.4	95.1	143.9	190.3	240.3	265.9	279.3	231.8
7.3	80°	8.5	32.9	74.4	114.7	131.7	176.9	201.3	204.9	154.9
4.9	82.5°	6.1	24.4	58.6	84.2	80.5	124.4	151.3	146.4	98.8
3.7	85°	3.7	17.1	36.6	52.5	48.8	81.7	87.8	90.3	57.3
2.4	87.5°	2.4	9.8	19.5	28.1	23.2	35.4	35.4	42.7	28.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
6591.8
6428.3
6455.2
6377.1
6269.8
6138.0
5983.1
5797.7
5550.1
5309.8
5008.5
4740.1
4423.0
4118.0
3781.4
3517.9
3189.8
2900.7
2614.0
2337.1
2073.7
1822.4
1569.9
1349.1
1150.3
961.2
807.5
683.1
566.0
446.4
315.9
223.2
145.2
91.5
52.5
24.4
0.0

(END OF REPORT)