

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: P479485

Luminaire Tested: **IFLD-S-SA3D-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

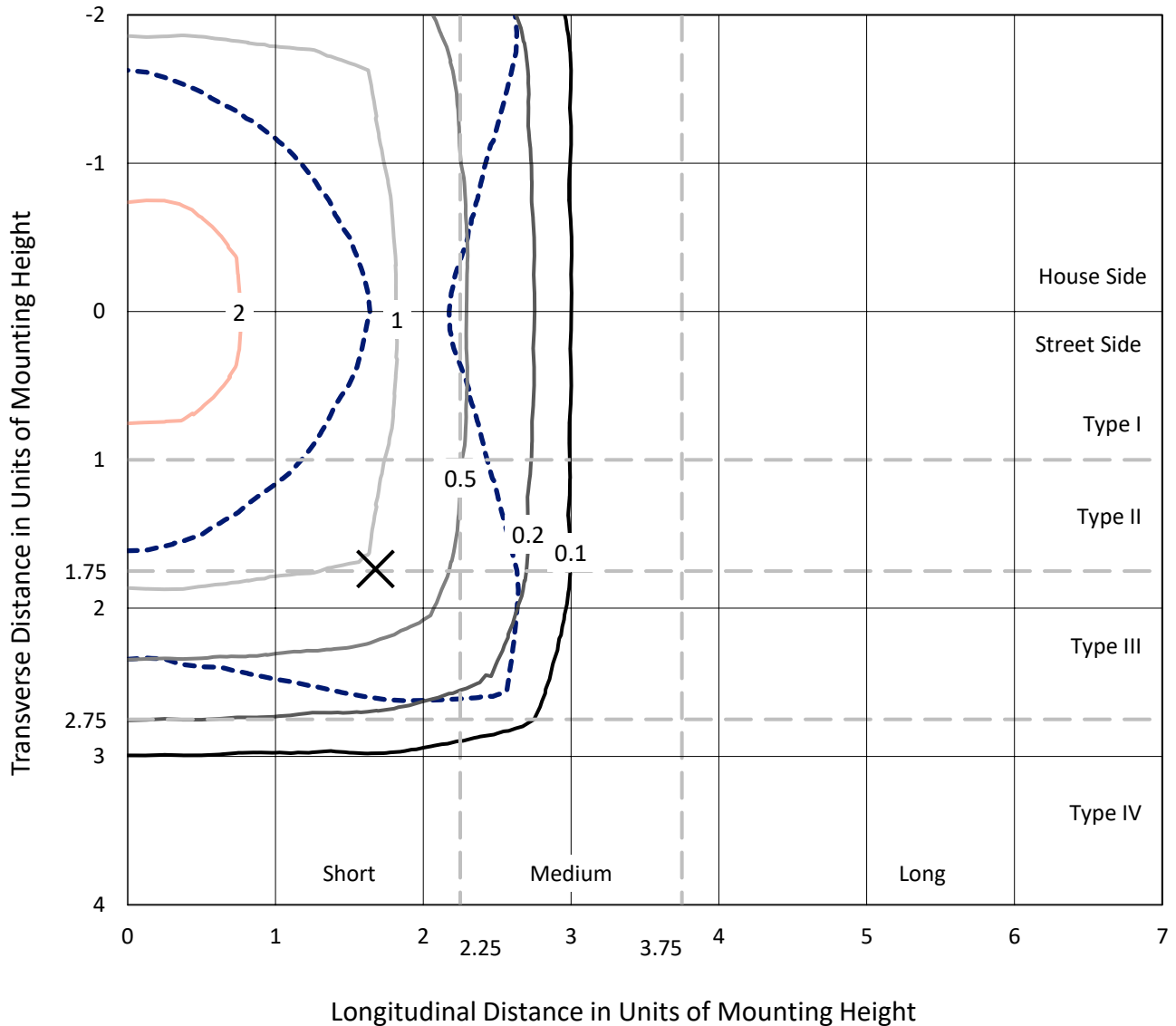
Lumens per Lamp: N/A
Luminaire Lumens: 18694 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

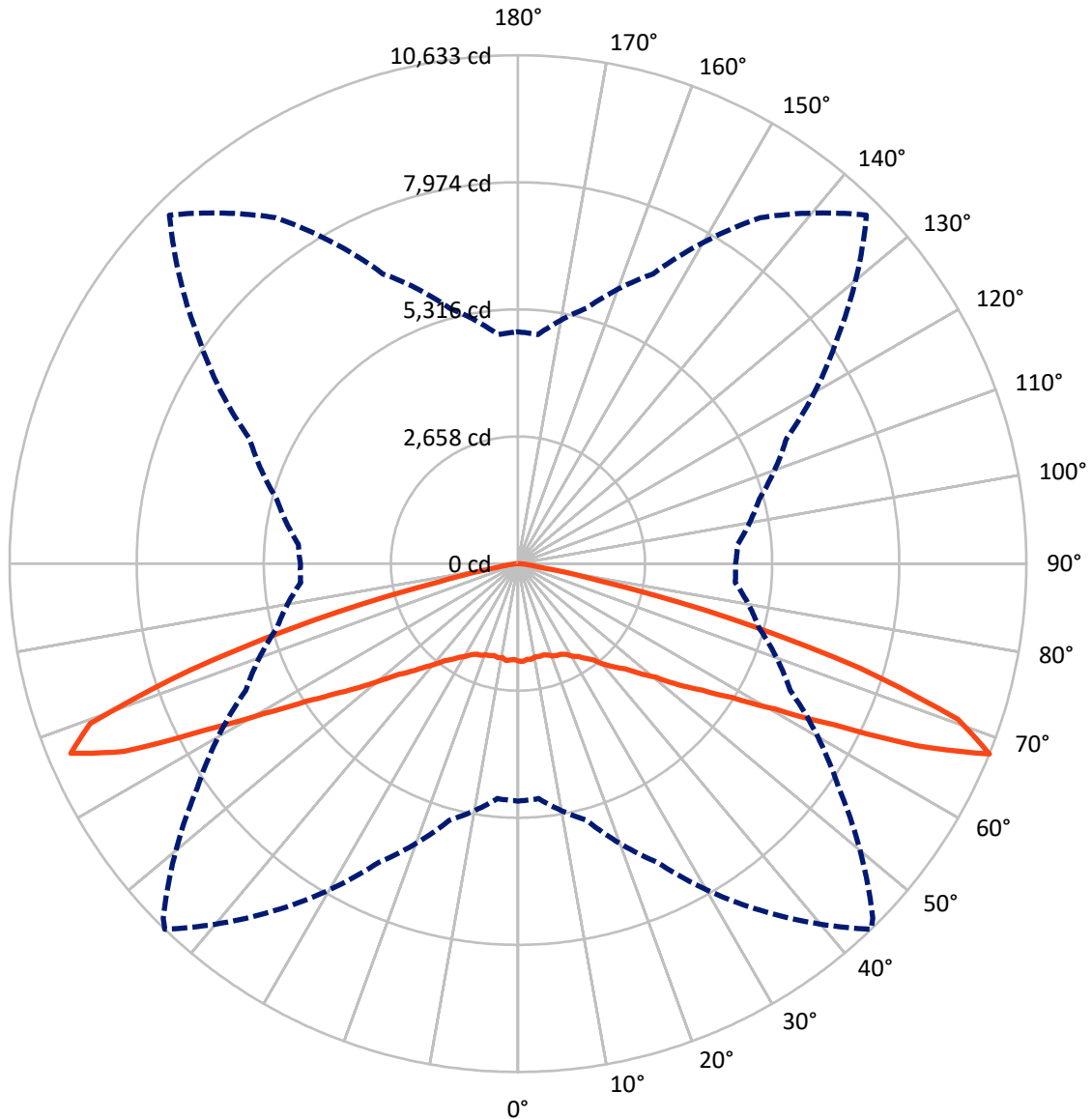
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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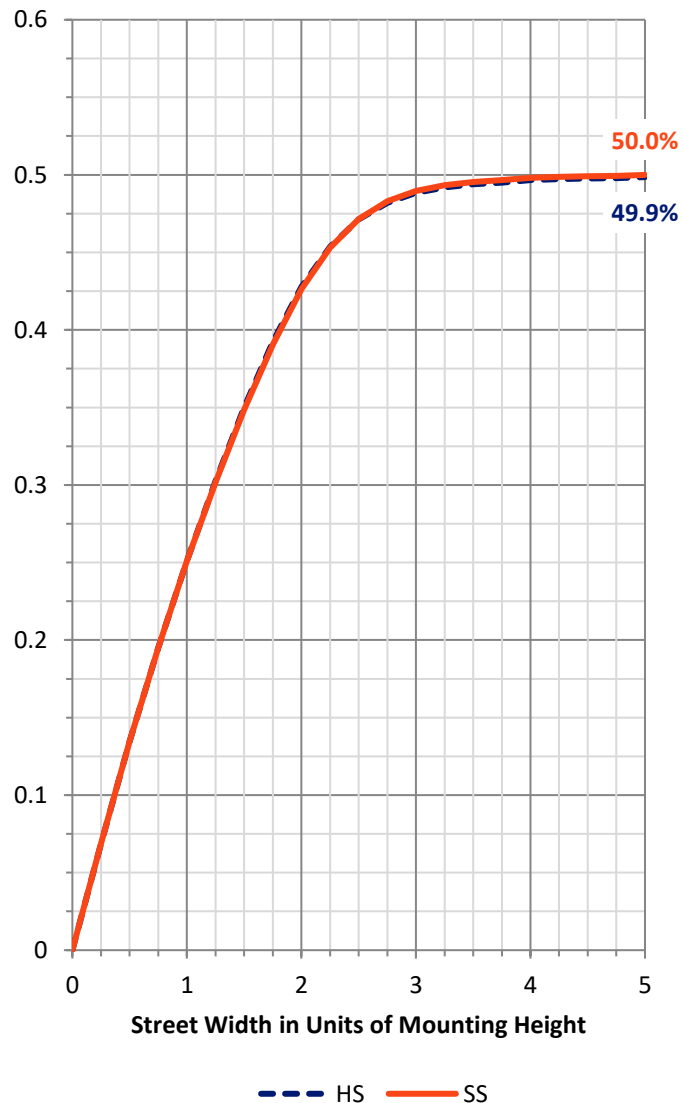
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9323.1	0.0	9323.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9370.9	0.0	9370.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	18694.0	0.0	18694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.0
10°-20°	564.5	3.0
20°-30°	960.0	5.1
30°-40°	1522.1	8.1
40°-50°	2482.0	13.3
50°-60°	4238.9	22.7
60°-70°	6447.3	34.5
70°-80°	2173.1	11.6
80°-90°	112.8	0.6
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°	18694.0	100.0
0°-180°	18694.0	100.0

Coefficient of Utilization



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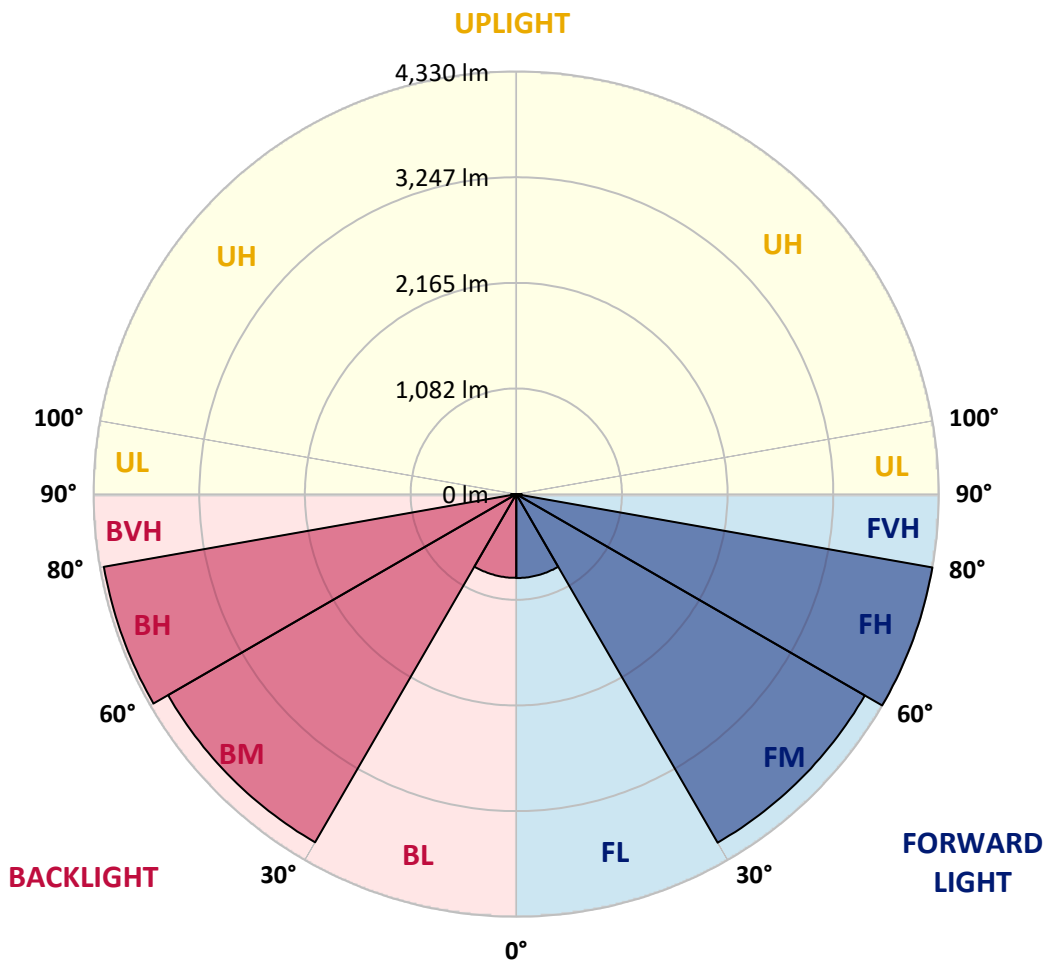
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.8	4.6			
FM (30°-60°)	4123.7	22.1			
FH (60°-80°)	4329.7	23.2			G2/5000
FVH (80°-90°)	57.7	0.3			G1/100
BL (0°-30°)	858.0	4.6	B2/1000		
BM (30°-60°)	4119.3	22.0	B3/5000		
BH (60°-80°)	4290.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	55.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0
2.5°	1995.1	2018.5	2035.6	2033.5	2039.9	2046.3	2037.7	2050.5	2042.0	2056.9	2065.5
5°	2033.5	2027.1	2029.2	2016.4	2046.3	2012.1	2012.1	2029.2	2050.5	2024.9	2039.9
7.5°	2010.0	2005.7	1995.1	2014.3	2020.7	2020.7	2037.7	2005.7	2042.0	2050.5	2052.7
10°	1984.4	1960.9	1992.9	2012.1	2016.4	1982.3	1997.2	2005.7	1995.1	2005.7	2012.1
12.5°	1963.0	1975.9	1975.9	1975.9	1969.4	1992.9	2007.9	2005.7	1984.4	2003.6	1969.4
15°	1960.9	1954.5	1973.7	1990.8	1980.1	1984.4	1990.8	2010.0	1969.4	1978.0	1978.0
17.5°	1958.8	1967.3	1973.7	1971.6	2007.9	2007.9	2001.5	1988.7	2020.7	2003.6	1980.1
20°	1967.3	1960.9	1978.0	1984.4	2010.0	2061.2	2042.0	2031.3	2014.3	1992.9	1992.9
22.5°	1978.0	1973.7	1997.2	2024.9	2074.0	2086.8	2084.7	2071.9	2042.0	2016.4	2012.1
25°	2016.4	1978.0	2003.6	2056.9	2074.0	2099.6	2116.7	2099.6	2059.1	2065.5	2027.1
27.5°	2074.0	2067.6	2101.7	2138.0	2123.1	2146.6	2131.6	2144.4	2146.6	2114.5	2076.1
30°	2142.3	2123.1	2144.4	2214.8	2221.2	2246.8	2221.2	2187.1	2197.8	2170.0	2150.8
32.5°	2240.4	2234.0	2274.6	2321.5	2330.1	2317.3	2304.4	2323.7	2278.8	2257.5	2223.4
35°	2304.4	2332.2	2381.3	2417.5	2445.3	2432.5	2438.9	2419.7	2430.3	2385.5	2370.6
37.5°	2494.4	2483.7	2494.4	2556.2	2562.6	2556.2	2562.6	2584.0	2569.0	2530.6	2492.2
40°	2673.6	2656.5	2682.1	2752.5	2748.3	2769.6	2726.9	2750.4	2750.4	2677.9	2662.9
42.5°	2808.0	2865.6	2895.5	2953.1	2974.4	2955.2	2946.7	2951.0	2997.9	2912.6	2880.6
45°	3085.4	3083.3	3172.9	3204.9	3145.1	3140.9	3123.8	3175.0	3207.0	3157.9	3145.1
47.5°	3386.3	3401.2	3452.4	3465.2	3501.5	3435.3	3435.3	3441.7	3554.8	3439.6	3379.9
50°	3657.2	3676.4	3778.9	3879.2	3810.9	3740.5	3768.2	3802.3	3864.2	3755.4	3704.2
52.5°	3985.8	4090.4	4158.7	4212.0	4261.1	4212.0	4148.0	4186.4	4308.0	4162.9	4098.9
55°	4459.5	4542.7	4606.8	4704.9	4745.5	4679.3	4672.9	4668.6	4736.9	4583.3	4495.8
57.5°	4988.7	4954.6	5057.0	5208.5	5355.7	5291.7	5272.5	5276.8	5293.8	5076.2	5010.0
60°	5645.9	5684.3	5805.9	5938.2	6094.0	6183.6	6057.7	5985.2	6000.1	5703.5	5601.1
62.5°	6021.4	6106.8	6382.0	6836.5	7150.2	7429.7	7448.9	6977.4	6661.6	6085.4	5650.2
65°	5840.1	5827.3	6345.8	7186.5	8375.0	9187.9	9066.3	7922.6	6819.5	5904.1	5319.4
67.5°	4967.4	4933.2	5560.5	6894.1	8857.2	10632.5	10493.8	8189.3	6286.0	5223.4	4562.0
70°	3200.6	3192.1	3872.8	5255.4	7907.7	9761.9	9813.1	7438.2	5116.7	3825.8	3170.7
72.5°	1162.9	1233.3	1628.0	2825.1	5370.6	7468.1	7500.1	5507.2	2942.4	1768.9	1303.7
75°	428.9	441.7	514.2	917.5	2447.4	4585.4	4704.9	2671.5	1045.5	576.1	469.4
77.5°	247.5	249.6	275.3	341.4	725.5	1790.2	1862.8	810.8	405.4	307.3	283.8
80°	168.6	166.4	194.2	221.9	290.2	507.8	539.8	339.3	256.0	213.4	179.2
82.5°	98.2	104.6	143.0	157.9	177.1	224.0	228.3	211.2	192.0	157.9	117.4
85°	59.7	49.1	78.9	87.5	102.4	100.3	100.3	115.2	123.8	111.0	66.1
87.5°	14.9	14.9	19.2	21.3	27.7	21.3	23.5	44.8	59.7	55.5	34.1
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°	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0
2.5°	2046.3	2039.9	2044.1	2067.6	2052.7	2007.9	2018.5	2042.0	2022.8	2012.1	2010.0
5°	2037.7	2050.5	2035.6	2039.9	2054.8	2018.5	2024.9	2054.8	2042.0	2046.3	2022.8
7.5°	2039.9	2046.3	2033.5	2014.3	2014.3	2044.1	2027.1	2031.3	2012.1	2044.1	2001.5
10°	2027.1	2010.0	1995.1	2005.7	2001.5	1992.9	1986.5	1999.3	1980.1	2007.9	1978.0
12.5°	1988.7	1992.9	1988.7	1984.4	1992.9	2014.3	1980.1	1984.4	1954.5	1958.8	1973.7
15°	1973.7	1986.5	1982.3	2005.7	2016.4	1984.4	2010.0	1984.4	1960.9	1948.1	1971.6
17.5°	1980.1	1999.3	1992.9	2010.0	1990.8	2014.3	2018.5	2007.9	1980.1	1969.4	1980.1
20°	1986.5	1980.1	1988.7	2018.5	2046.3	2022.8	2022.8	2016.4	1990.8	1975.9	1975.9
22.5°	2001.5	1990.8	2003.6	2027.1	2035.6	2071.9	2039.9	2024.9	1982.3	1943.8	1980.1
25°	2031.3	2037.7	2046.3	2037.7	2084.7	2080.4	2076.1	2065.5	1999.3	2001.5	1995.1
27.5°	2088.9	2052.7	2063.3	2114.5	2120.9	2138.0	2116.7	2135.9	2065.5	2067.6	2024.9
30°	2159.4	2120.9	2155.1	2199.9	2197.8	2229.8	2219.1	2223.4	2174.3	2146.6	2088.9
32.5°	2236.2	2231.9	2253.2	2281.0	2291.6	2308.7	2306.6	2306.6	2276.7	2204.2	2214.8
35°	2321.5	2351.4	2377.0	2406.9	2411.1	2432.5	2402.6	2406.9	2377.0	2323.7	2340.7
37.5°	2490.1	2488.0	2515.7	2552.0	2556.2	2539.2	2562.6	2552.0	2511.4	2475.1	2447.4
40°	2686.4	2643.7	2669.3	2754.7	2761.1	2731.2	2729.1	2726.9	2697.1	2618.1	2601.0
42.5°	2857.1	2912.6	2908.3	2936.0	2916.8	2901.9	2955.2	2925.4	2901.9	2818.7	2803.7
45°	3076.9	3093.9	3149.4	3239.0	3147.3	3147.3	3183.6	3160.1	3147.3	3085.4	3027.8
47.5°	3350.0	3364.9	3475.9	3482.3	3422.5	3382.0	3495.1	3499.3	3446.0	3399.1	3328.6
50°	3670.0	3676.4	3776.7	3879.2	3813.0	3736.2	3851.4	3896.2	3776.7	3712.7	3625.2
52.5°	4022.1	4002.9	4086.1	4278.2	4214.2	4190.7	4314.4	4325.1	4162.9	4062.7	4086.1
55°	4427.5	4401.9	4628.1	4758.3	4717.7	4675.0	4730.5	4756.1	4626.0	4461.7	4519.3
57.5°	4952.4	4965.2	5078.3	5206.3	5272.5	5283.2	5308.8	5283.2	5150.9	4984.4	4931.1
60°	5477.3	5515.7	5735.5	5976.6	5998.0	6185.7	6151.6	6023.6	5835.8	5599.0	5609.6
62.5°	5671.5	5639.5	5993.7	6582.6	7084.0	7427.6	7276.1	6821.6	6386.3	5955.3	5987.3
65°	5281.0	5360.0	5842.2	6764.0	7852.2	9211.4	8404.8	7148.1	6269.0	5712.0	5650.2
67.5°	4551.3	4611.0	5223.4	6196.4	8127.4	10308.1	8831.6	6687.2	5528.5	4807.3	4845.7
70°	3170.7	3200.6	3800.2	5076.2	7370.0	9727.8	7967.4	5135.9	3817.3	3042.7	3085.4
72.5°	1276.0	1348.5	1743.3	3057.7	5441.1	7391.3	5364.2	2694.9	1583.2	1177.8	1069.0
75°	471.6	473.7	556.9	1051.9	2584.0	4645.2	2419.7	866.3	505.7	413.9	394.7
77.5°	273.1	271.0	290.2	379.8	748.9	1813.7	687.1	339.3	275.3	247.5	236.8
80°	170.7	168.6	198.4	251.8	328.6	497.2	290.2	211.2	185.6	160.0	160.0
82.5°	108.8	111.0	155.8	185.6	200.6	219.8	168.6	149.4	138.7	91.8	89.6
85°	70.4	64.0	108.8	123.8	111.0	98.2	93.9	78.9	72.5	44.8	49.1
87.5°	32.0	34.1	55.5	61.9	40.5	23.5	23.5	17.1	17.1	10.7	10.7
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)