

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: P480069

Luminaire Tested: **IFLD-S-SA3C-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480069
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

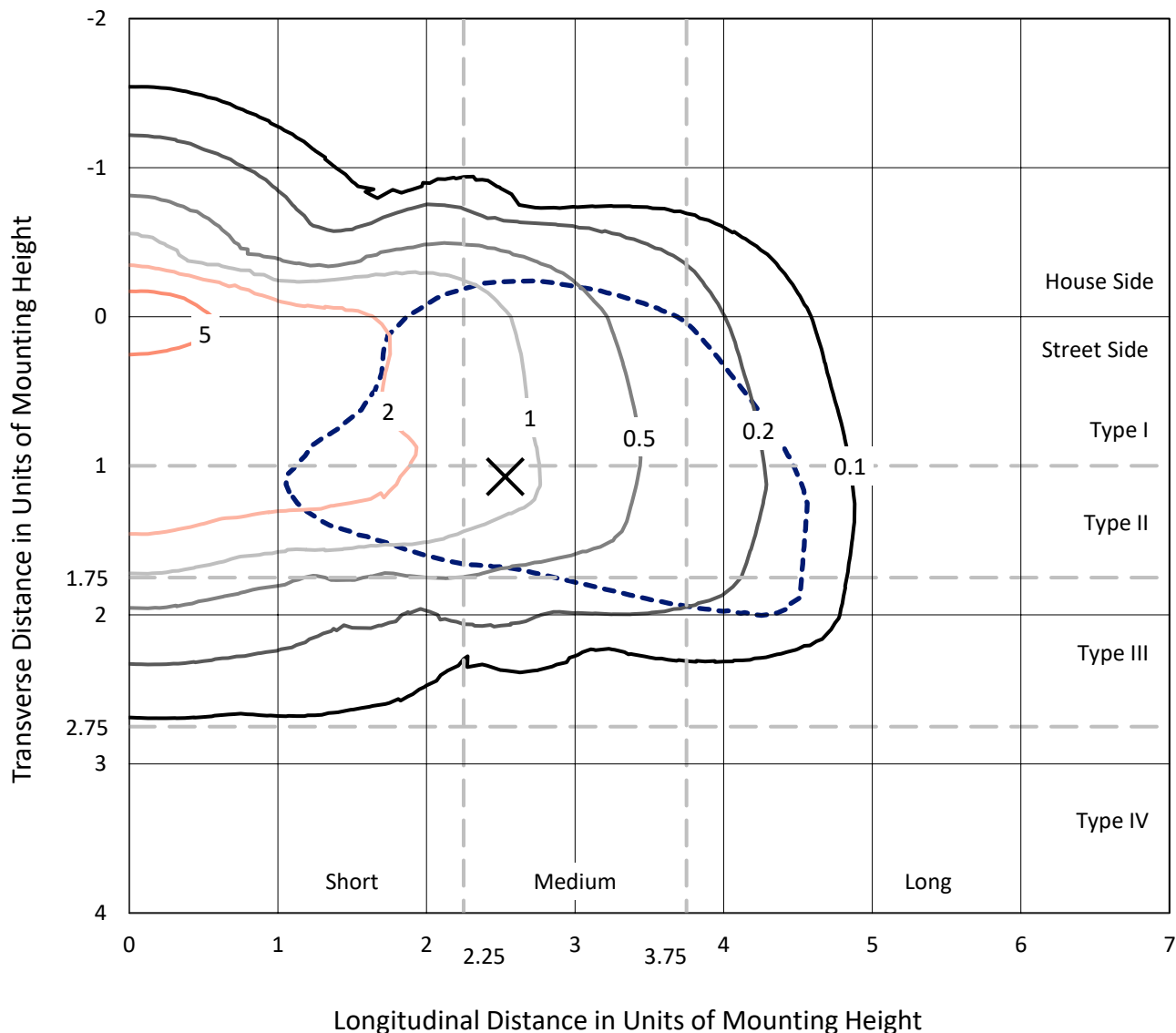
Lumens per Lamp: N/A
Luminaire Lumens: 20830.3 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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

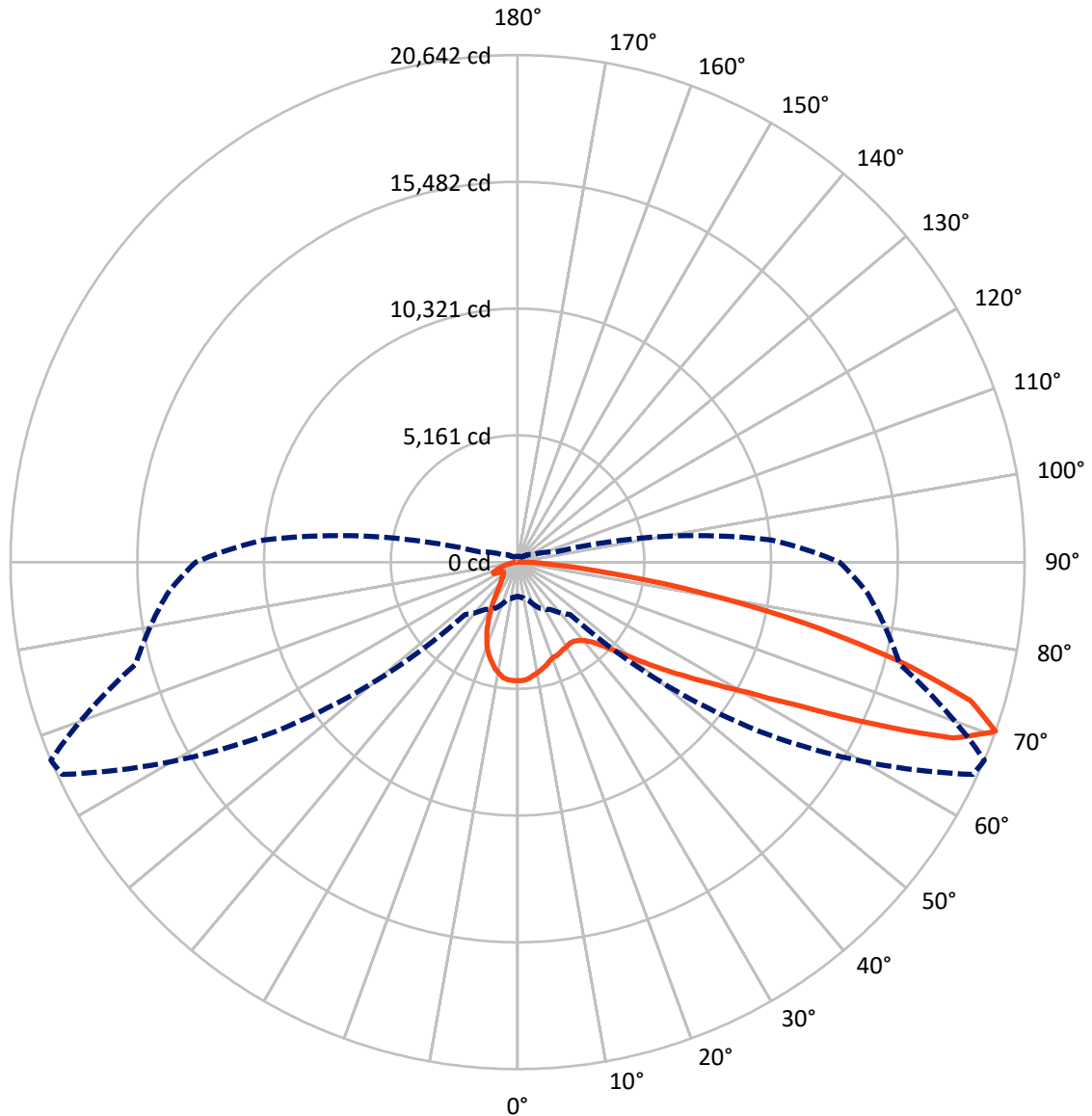
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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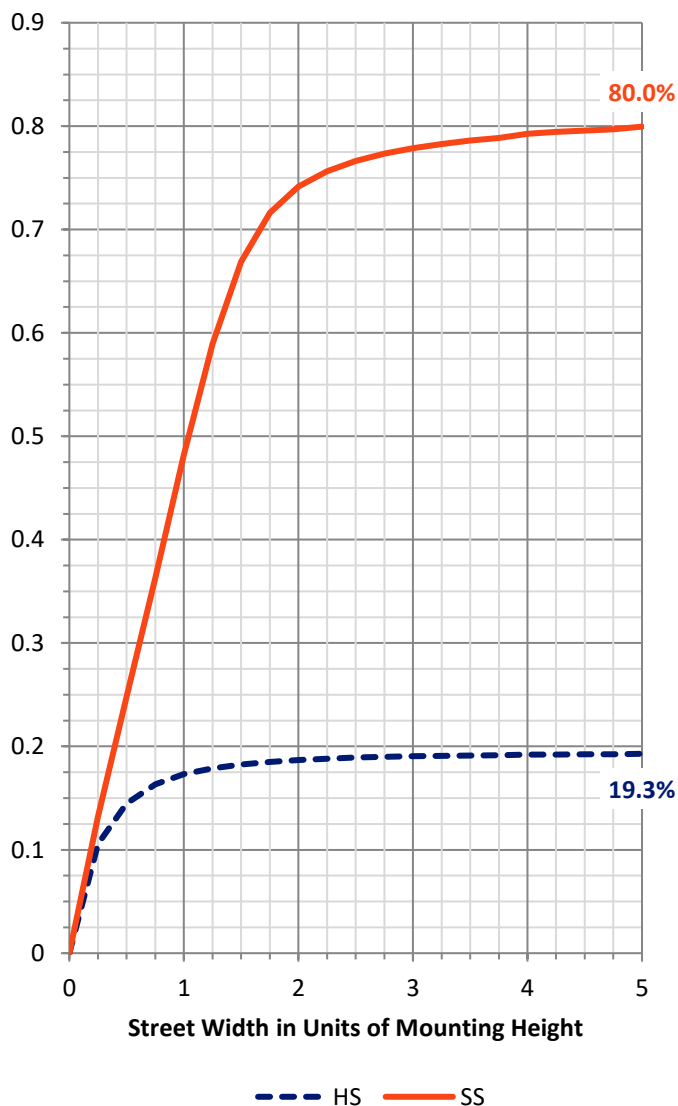
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4056.9	0.0	4056.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16773.4	0.0	16773.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	20830.3	0.0	20830.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.7	2.0
10°-20°	1007.7	4.8
20°-30°	1360.8	6.5
30°-40°	1820.8	8.7
40°-50°	2677.5	12.9
50°-60°	4173.6	20.0
60°-70°	5141.1	24.7
70°-80°	3632.7	17.4
80°-90°	595.4	2.9
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°	20830.3	100.0
0°-180°	20830.3	100.0

Coefficient of Utilization



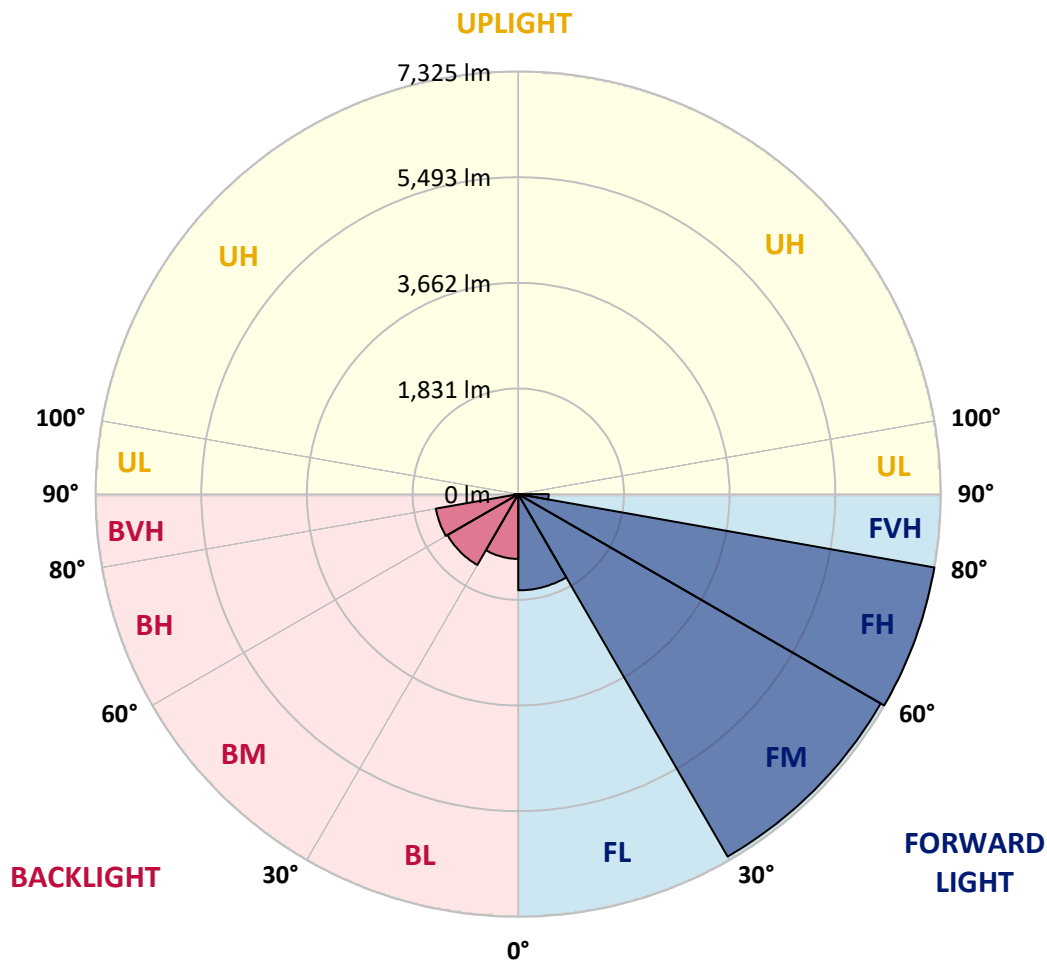
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.3	8.0			
FM (30°-60°)	7254.7	34.8			
FH (60°-80°)	7324.6	35.2			G3/7500
FVH (80°-90°)	526.7	2.5			G4/750
BL (0°-30°)	1121.9	5.4	B3/2500		
BM (30°-60°)	1417.2	6.8	B2/2500		
BH (60°-80°)	1449.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	68.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2
2.5°	4490.1	4540.8	4559.3	4586.9	4658.4	4711.5	4743.7	4780.6	4824.5	4861.4	4884.4
5°	4176.4	4204.1	4247.9	4277.9	4367.8	4510.8	4607.7	4764.5	4759.9	4817.5	4905.2
7.5°	3872.0	3899.7	3920.4	3980.4	4109.6	4238.7	4416.3	4669.9	4651.5	4785.3	4921.3
10°	3682.9	3662.2	3669.1	3770.5	3872.0	4017.3	4241.0	4499.3	4566.2	4773.7	4967.4
12.5°	3505.3	3482.3	3537.6	3602.2	3726.7	3858.2	4125.7	4358.6	4460.1	4732.2	4988.2
15°	3394.6	3378.5	3447.7	3475.4	3623.0	3779.8	3968.9	4252.5	4363.2	4681.5	4955.9
17.5°	3332.4	3346.2	3371.6	3431.5	3526.1	3659.9	3867.4	4181.0	4229.5	4619.2	4949.0
20°	3343.9	3360.1	3362.4	3387.7	3452.3	3556.1	3768.2	4104.9	4137.2	4607.7	4967.4
22.5°	3436.2	3413.1	3422.3	3406.2	3424.6	3505.3	3692.1	4003.5	4128.0	4510.8	4928.2
25°	3574.5	3542.2	3537.6	3482.3	3447.7	3470.8	3678.3	3978.1	4058.8	4480.8	4925.9
27.5°	3819.0	3770.5	3770.5	3687.5	3546.9	3510.0	3639.1	3936.6	4008.1	4453.2	4872.9
30°	4054.2	4054.2	4056.5	3938.9	3782.1	3599.9	3655.2	3920.4	3966.6	4370.1	4801.4
32.5°	4340.2	4333.2	4321.7	4264.1	4021.9	3749.8	3733.7	3899.7	3922.8	4342.5	4780.6
35°	4619.2	4600.8	4690.7	4640.0	4393.2	4042.7	3814.4	3908.9	3959.7	4301.0	4716.1
37.5°	4829.1	4840.6	5027.4	5059.7	4847.5	4374.8	4042.7	4001.2	4049.6	4360.9	4716.1
40°	5101.2	5147.3	5322.6	5431.0	5301.8	4812.9	4404.7	4155.7	4190.3	4494.7	4817.5
42.5°	5458.6	5497.9	5721.6	5862.2	5825.3	5371.0	4762.2	4478.5	4450.9	4718.4	4969.7
45°	5931.4	5938.3	6164.3	6358.0	6434.1	5954.5	5329.5	4886.7	4863.7	5103.5	5248.8
47.5°	6494.1	6487.2	6627.9	6835.4	7040.7	6650.9	5982.1	5507.1	5424.1	5654.7	5712.3
50°	7038.4	7008.4	7040.7	7305.9	7700.2	7522.7	6775.5	6265.8	6182.8	6309.6	6408.8
52.5°	7338.2	7375.1	7287.4	7638.0	8401.3	8553.5	7827.1	7172.1	7100.6	7162.9	7335.9
55°	7128.3	7204.4	7146.7	7478.8	8708.0	9810.3	9187.7	8221.4	8129.2	8106.1	8389.8
57.5°	6235.8	6374.2	6385.7	6911.5	8601.9	10783.5	11101.8	9459.8	9321.4	9086.2	9379.1
60°	4787.6	4925.9	5032.0	5654.7	7693.3	11364.7	13320.3	11221.7	10765.1	10156.3	10331.5
62.5°	3355.4	3450.0	3556.1	3938.9	5931.4	11023.4	15239.0	13703.1	12861.4	11284.0	11503.1
65°	2444.5	2518.3	2626.7	2852.7	3643.7	9120.8	16129.2	16650.4	15852.5	12718.4	12690.7
67.5°	1840.3	1886.4	2029.4	2391.5	2525.2	5633.9	15206.7	19763.7	19118.0	14311.9	13645.5
70°	1392.9	1432.1	1565.9	2061.7	2359.2	3021.1	11996.6	20457.8	20642.3	16099.2	14286.6
72.5°	959.4	1003.2	1153.1	1718.1	2246.2	2396.1	7529.6	18585.2	19284.0	16834.9	13599.3
75°	588.1	618.0	705.7	1303.0	2230.0	2343.0	4144.1	15229.8	15970.1	15555.0	11897.4
77.5°	415.1	412.8	428.9	763.3	1932.6	2356.9	2555.2	11159.4	11879.0	11463.9	8073.8
80°	302.1	304.4	320.6	456.6	1312.2	2396.1	2013.3	7474.2	7688.7	5977.5	3184.8
82.5°	182.2	191.4	230.6	309.0	788.7	2163.2	1861.1	4153.4	3885.9	1918.7	876.3
85°	96.9	96.9	136.1	196.0	419.7	1614.3	1791.9	1976.4	1655.8	595.0	325.2
87.5°	23.1	23.1	39.2	78.4	168.3	772.6	1222.3	786.4	629.6	200.6	133.8
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°	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2
2.5°	4875.2	4847.5	4882.1	4812.9	4757.6	4759.9	4674.6	4669.9	4658.4	4598.5	4619.2
5°	4930.5	4907.5	4868.3	4792.2	4669.9	4547.7	4473.9	4379.4	4340.2	4319.4	4328.6
7.5°	4983.6	4942.1	4829.1	4723.0	4533.9	4303.3	4169.5	4042.7	3881.2	3862.8	3830.5
10°	4997.4	4909.8	4764.5	4538.5	4287.1	4031.1	3726.7	3491.5	3367.0	3270.1	3233.2
12.5°	4976.7	4939.8	4660.7	4370.1	3989.6	3588.4	3233.2	2901.1	2670.5	2550.6	2518.3
15°	4974.4	4909.8	4545.4	4114.2	3627.6	3104.1	2599.0	2200.1	1957.9	1858.8	1858.8
17.5°	4976.7	4822.2	4409.4	3855.9	3200.9	2492.9	1937.2	1609.7	1475.9	1462.1	1473.6
20°	4930.5	4757.6	4266.4	3551.5	2665.9	1872.6	1406.7	1273.0	1273.0	1291.4	1298.4
22.5°	4889.0	4660.7	4040.4	3175.6	2121.7	1356.0	1143.8	1104.6	1148.5	1180.7	1194.6
25°	4831.4	4580.0	3809.8	2785.8	1614.3	1093.1	993.9	1003.2	1044.7	1102.3	1097.7
27.5°	4748.4	4439.3	3535.3	2333.8	1201.5	943.2	917.8	922.5	966.3	991.6	987.0
30°	4653.8	4296.4	3281.6	1884.1	952.4	864.8	862.5	874.0	880.9	894.8	892.5
32.5°	4533.9	4107.2	3011.8	1464.4	857.9	821.0	811.8	804.8	811.8	809.5	802.5
35°	4448.6	4005.8	2737.4	1116.2	804.8	781.8	774.9	763.3	754.1	740.3	738.0
37.5°	4425.5	3904.3	2449.1	910.9	763.3	751.8	728.7	708.0	696.5	689.5	684.9
40°	4411.7	3837.4	2167.8	800.2	728.7	717.2	689.5	661.9	650.3	643.4	645.7
42.5°	4460.1	3800.5	1881.8	744.9	698.8	678.0	648.0	615.7	613.4	608.8	615.7
45°	4630.7	3846.7	1616.6	705.7	668.8	634.2	595.0	578.8	576.5	571.9	576.5
47.5°	5018.2	3962.0	1390.6	680.3	636.5	606.5	565.0	541.9	539.6	537.3	537.3
50°	5553.2	4317.1	1201.5	650.3	615.7	574.2	535.0	509.7	505.0	495.8	495.8
52.5°	6392.6	4914.4	1088.5	634.2	578.8	544.3	502.7	475.1	463.5	454.3	454.3
55°	7338.2	5654.7	1067.7	606.5	539.6	507.4	470.5	442.8	431.2	419.7	415.1
57.5°	8415.1	6634.8	1215.3	588.1	512.0	470.5	428.9	403.6	394.4	382.8	378.2
60°	9418.3	7612.6	1674.3	560.4	486.6	435.9	394.4	369.0	357.5	345.9	345.9
62.5°	10578.3	8823.3	2451.4	560.4	463.5	399.0	357.5	339.0	332.1	320.6	318.2
65°	11950.5	10075.6	3018.7	595.0	456.6	366.7	322.9	304.4	297.5	290.6	288.3
67.5°	12995.1	10795.1	2596.7	687.2	486.6	339.0	288.3	276.7	272.1	265.2	260.6
70°	13105.8	10356.9	1565.9	742.6	516.6	311.3	258.3	246.8	246.8	239.8	235.2
72.5°	12111.9	9190.0	1053.9	661.9	468.1	279.0	228.3	219.1	214.5	209.9	207.6
75°	10135.5	7794.8	832.5	528.1	359.8	230.6	198.3	189.1	182.2	179.9	175.3
77.5°	6807.7	5066.6	615.7	412.8	265.2	186.8	166.0	156.8	149.9	147.6	140.7
80°	2615.2	1930.2	396.7	299.8	186.8	147.6	131.5	122.2	117.6	110.7	106.1
82.5°	770.3	625.0	221.4	184.5	119.9	101.5	94.6	87.6	80.7	73.8	71.5
85°	318.2	286.0	136.1	96.9	73.8	60.0	55.3	48.4	41.5	36.9	32.3
87.5°	147.6	122.2	62.3	36.9	25.4	13.8	6.9	2.3	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)