

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: McGRAW-EDISON

Report Number: P383267

Luminaire Tested: **GLEON-SA5D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36343.4 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

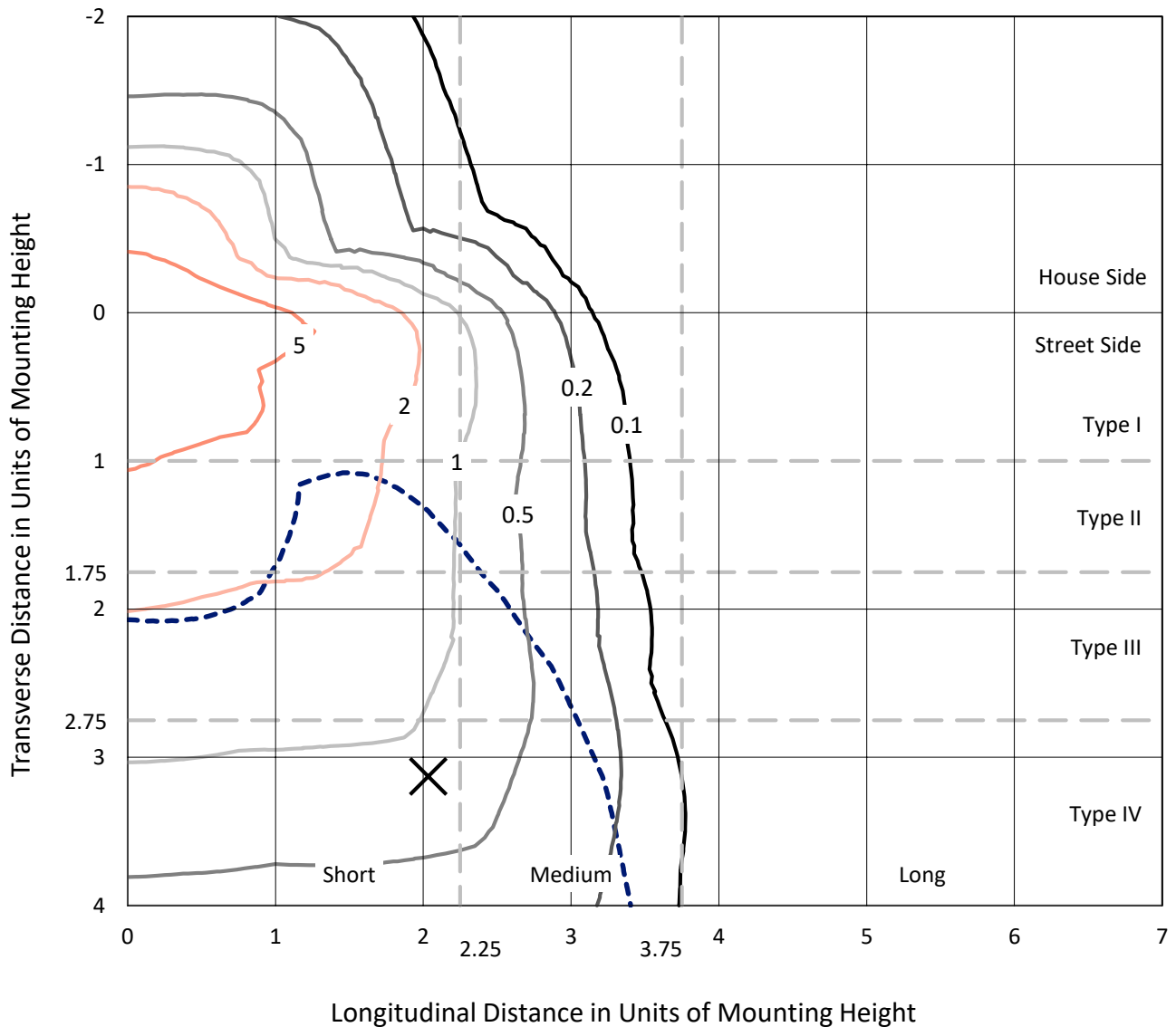
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

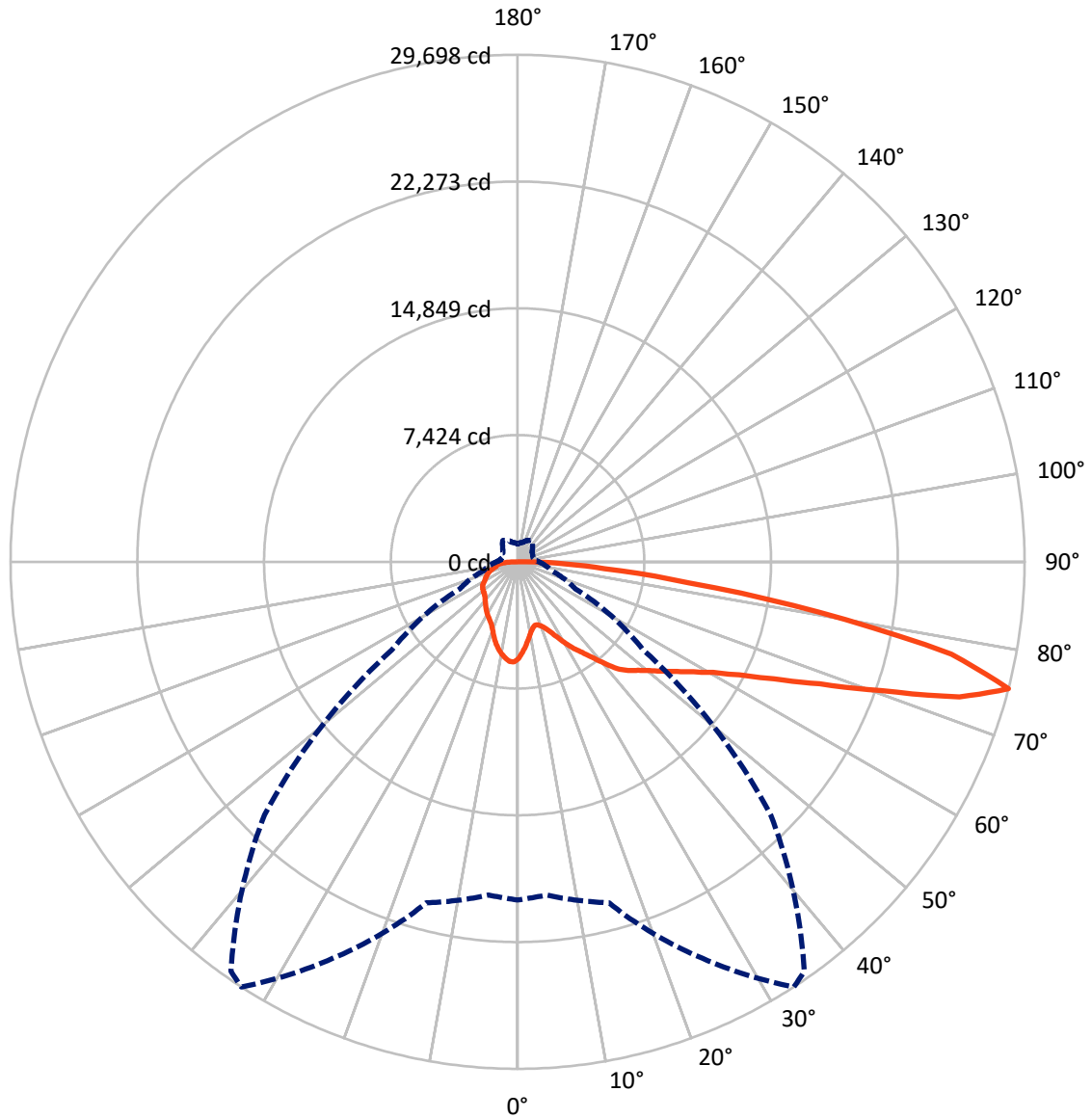
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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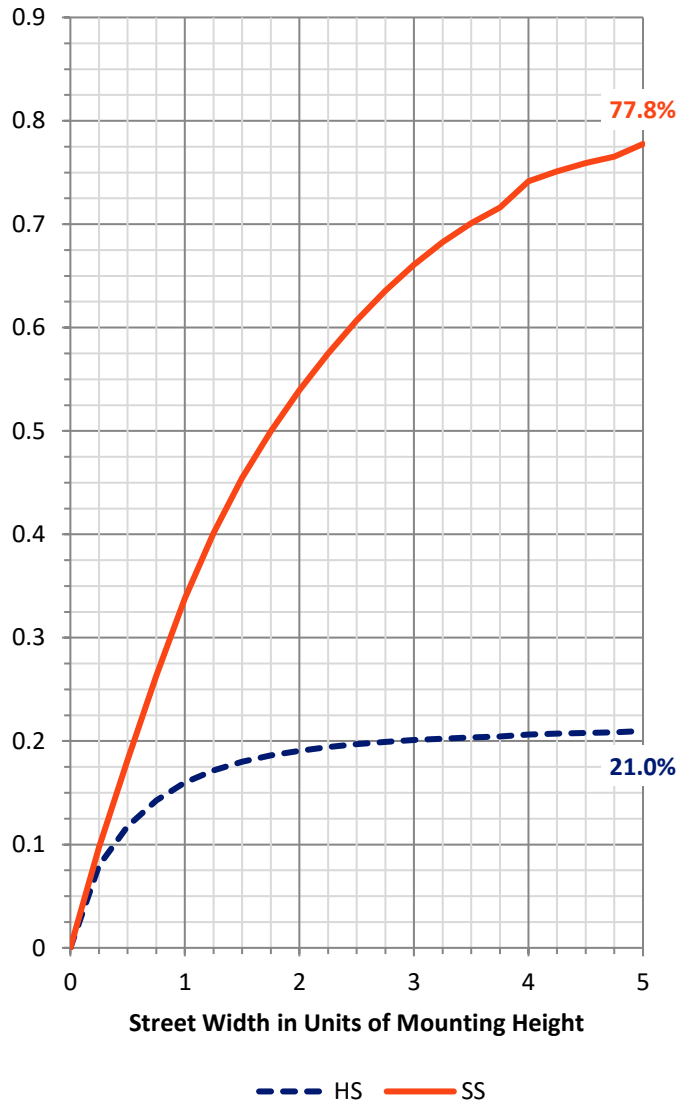
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7803.9	0.0	7803.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	28539.5	0.0	28539.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	36343.4	0.0	36343.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.7	1.4
10°-20°	1391.4	3.8
20°-30°	2272.4	6.3
30°-40°	3384.2	9.3
40°-50°	4853.8	13.4
50°-60°	6663.6	18.3
60°-70°	8342.5	23.0
70°-80°	7547.0	20.8
80°-90°	1374.7	3.8
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°	36343.4	100.0
0°-180°	36343.4	100.0

Coefficient of Utilization

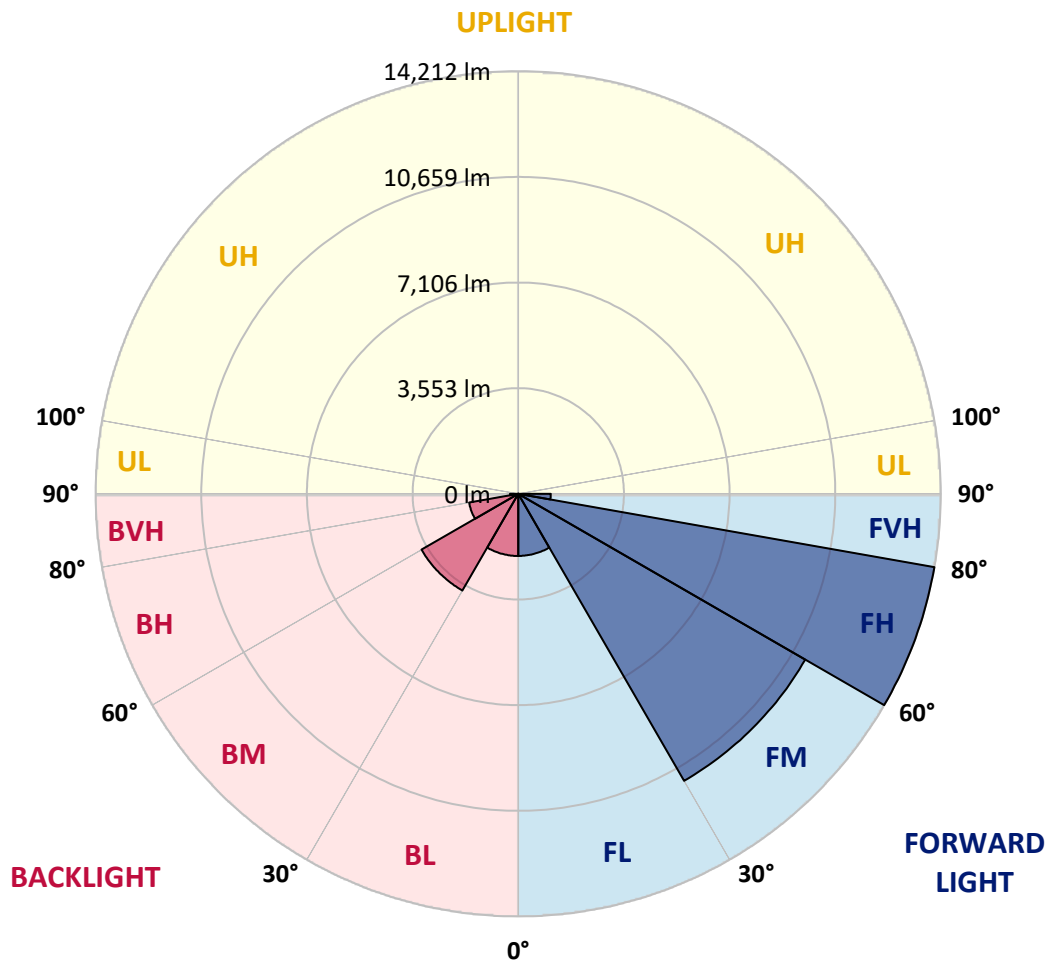


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2087.4	5.7			
FM (30°-60°)	11145.8	30.7			
FH (60°-80°)	14211.5	39.1			G5
FVH (80°-90°)	1094.8	3.0			G5
BL (0°-30°)	2090.2	5.8	B3/2500		
BM (30°-60°)	3755.8	10.3	B3/5000		
BH (60°-80°)	1678.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	279.9	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7
2.5°	5275.2	5255.1	5292.8	5297.8	5330.4	5343.0	5388.2	5458.5	5516.3	5582.8	5643.0
5°	4796.9	4783.0	4835.8	4873.5	4945.0	4975.1	5081.9	5231.2	5364.3	5514.9	5651.8
7.5°	4342.4	4334.9	4393.9	4479.3	4562.2	4603.5	4788.1	5005.3	5227.5	5471.0	5680.7
10°	3959.5	3957.0	4013.5	4097.6	4219.4	4265.8	4504.4	4790.6	5101.9	5437.2	5729.7
12.5°	3744.8	3753.7	3780.0	3850.3	3963.3	4009.8	4274.6	4611.1	4996.4	5425.8	5801.2
15°	3797.5	3811.4	3766.2	3763.6	3844.0	3880.5	4129.0	4483.1	4921.2	5444.6	5905.4
17.5°	4022.3	4024.8	3905.5	3830.2	3879.2	3898.0	4083.8	4410.2	4877.2	5487.4	6036.0
20°	4338.7	4332.3	4121.4	3996.0	4022.3	4027.4	4147.8	4411.4	4873.5	5561.4	6205.4
22.5°	4758.0	4711.5	4427.8	4257.1	4250.7	4243.3	4312.3	4504.4	4928.7	5682.0	6407.6
25°	5305.3	5261.4	4871.0	4637.4	4587.2	4568.4	4578.5	4702.7	5037.9	5811.3	6633.6
27.5°	5914.2	5837.6	5461.0	5130.8	5026.6	5000.3	4940.0	4982.7	5157.1	5935.5	6902.2
30°	6423.9	6382.4	6053.6	5661.9	5538.8	5501.2	5343.0	5296.5	5329.2	6105.0	7241.1
32.5°	6708.8	6681.2	6481.6	6165.3	6051.1	5998.3	5774.8	5682.0	5605.3	6372.4	7700.6
35°	7054.1	7036.5	6916.0	6686.3	6516.7	6461.5	6288.3	6191.6	5994.5	6740.2	8294.4
37.5°	7493.5	7474.6	7477.2	7291.3	7089.3	7037.7	6923.5	6821.8	6499.2	7223.6	8939.7
40°	7990.6	7954.2	7940.4	7931.6	7803.6	7774.7	7714.4	7576.4	7131.9	7801.1	9576.2
42.5°	8738.8	8609.5	8333.3	8437.5	8564.4	8549.3	8598.2	8399.9	7835.0	8484.0	10197.6
45°	9460.7	9248.5	8771.5	8794.1	9071.5	9155.6	9522.2	9381.6	8597.0	9232.2	10840.3
47.5°	9789.6	9628.9	9223.4	9224.7	9499.6	9674.1	10477.6	10377.2	9397.9	10082.1	11625.0
50°	10157.4	9996.7	9632.7	9769.5	10009.3	10195.0	11400.3	11348.8	10159.9	11012.4	12565.3
52.5°	10559.2	10286.7	10055.8	10300.6	10637.0	10852.9	12324.3	12183.6	10859.2	11948.9	13646.1
55°	10564.2	10490.1	10665.8	10845.4	11348.8	11613.7	13292.2	12920.6	11429.2	12869.1	14526.2
57.5°	11165.5	11045.0	11417.9	11500.7	12158.6	12457.3	14255.0	13562.0	12009.1	13574.6	15000.7
60°	11961.4	11858.5	12163.6	12382.0	13160.3	13559.5	15283.2	14221.2	12464.9	14106.9	14978.2
62.5°	13336.1	13219.3	13215.6	13521.9	14570.1	15034.6	16437.0	14867.7	12645.7	14212.3	14339.1
65°	15348.5	15162.7	14812.4	14958.0	16517.3	16980.5	17726.2	15336.0	12407.1	13647.5	12693.4
67.5°	17306.9	17300.6	16870.0	17168.8	19088.3	19459.9	19195.0	15382.4	11662.6	11680.2	9773.2
70°	19259.1	19284.2	19211.4	20250.8	22562.0	22948.7	20759.3	14758.4	9989.2	8435.0	5855.1
72.5°	20805.7	20799.4	21166.0	23846.3	27070.1	26983.5	22077.4	12867.8	7172.1	4553.3	2798.3
75°	19803.9	19585.5	20677.7	25626.4	29697.7	29274.6	20956.4	8976.1	3722.3	2072.7	1506.5
77.5°	12916.7	13123.9	14727.1	21169.8	25976.7	25462.0	15374.8	4188.1	1753.8	1359.6	1092.2
80°	4677.6	4896.0	6895.9	11991.5	17897.0	17812.9	7571.3	1721.1	1186.3	1026.9	795.9
82.5°	1609.4	1689.7	2720.5	5325.4	10104.7	10481.3	2848.5	977.9	862.4	728.1	544.9
85°	631.5	723.1	1244.1	2562.2	5097.0	5134.6	1153.7	585.0	600.1	477.0	298.7
87.5°	239.8	291.3	595.1	1190.1	2327.5	2137.9	413.0	278.7	341.5	283.7	141.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7	5680.7
2.5°	5689.4	5715.8	5771.0	5808.8	5848.9	5860.2	5865.2	5875.3	5885.3	5881.5	5882.8
5°	5724.6	5776.1	5865.2	5902.8	5920.5	5900.3	5861.5	5830.1	5807.5	5794.9	5791.2
7.5°	5782.4	5855.1	5950.6	5944.3	5904.1	5815.0	5714.6	5639.2	5576.5	5553.9	5541.3
10°	5859.0	5944.3	6010.8	5939.3	5822.5	5668.1	5517.5	5400.7	5306.6	5270.1	5263.9
12.5°	5956.9	6043.5	6056.1	5904.1	5710.9	5499.9	5295.3	5140.8	5000.3	4955.1	4945.0
15°	6083.7	6165.3	6087.4	5842.7	5572.7	5289.0	5024.1	4814.4	4666.3	4611.1	4590.9
17.5°	6216.8	6294.6	6093.7	5740.9	5391.9	5039.2	4706.5	4491.8	4322.4	4258.3	4250.7
20°	6376.2	6411.3	6067.4	5595.3	5143.4	4715.3	4365.0	4162.9	4072.5	4027.4	4022.3
22.5°	6573.3	6535.6	6007.1	5398.2	4828.3	4341.2	4056.2	3962.1	3939.4	3929.4	3933.2
25°	6781.7	6666.2	5917.9	5140.8	4430.3	3967.1	3830.2	3856.6	3886.7	3883.0	3883.0
27.5°	7011.4	6799.3	5781.1	4799.4	3989.6	3660.7	3677.1	3773.7	3818.9	3817.7	3816.4
30°	7306.4	6949.9	5606.6	4388.9	3577.9	3444.8	3544.0	3662.0	3723.5	3721.0	3722.3
32.5°	7669.2	7115.6	5369.3	3930.7	3280.4	3285.4	3399.6	3516.4	3587.9	3581.6	3582.9
35°	8093.6	7301.4	5048.0	3478.7	3083.2	3158.6	3249.0	3330.6	3398.4	3389.5	3380.8
37.5°	8555.5	7483.4	4621.1	3074.5	2922.5	3040.6	3115.9	3129.7	3161.1	3138.5	3122.2
40°	8994.9	7622.8	4071.2	2743.0	2760.6	2940.2	2989.1	2933.9	2877.4	2869.8	2847.3
42.5°	9377.8	7669.2	3515.1	2478.2	2589.9	2834.7	2864.8	2749.3	2647.6	2599.9	2579.8
45°	9782.1	7685.5	2996.6	2255.9	2425.5	2740.5	2773.2	2618.8	2475.7	2372.7	2338.8
47.5°	10310.6	7803.6	2593.6	2091.5	2299.9	2677.7	2724.2	2514.5	2328.8	2181.9	2150.5
50°	11002.3	8037.0	2266.0	1965.9	2218.3	2636.4	2689.1	2412.9	2208.2	2031.2	1999.8
52.5°	11770.6	8251.7	2001.2	1864.3	2139.2	2563.5	2643.8	2340.0	2095.2	1891.9	1858.0
55°	12307.9	8087.2	1787.7	1758.9	2036.3	2459.3	2581.1	2278.6	1933.3	1756.3	1726.2
57.5°	12410.8	7524.9	1625.7	1649.6	1912.0	2328.8	2484.4	2141.7	1845.4	1697.3	1665.9
60°	12129.7	6741.5	1505.2	1549.2	1778.9	2164.3	2303.6	2045.0	1761.4	1634.5	1608.1
62.5°	11422.8	5939.3	1416.0	1458.8	1654.6	1997.3	2190.6	1943.4	1675.9	1563.0	1536.6
65°	9995.5	4986.5	1330.7	1378.4	1539.1	1852.9	2089.0	1849.2	1591.8	1505.2	1480.1
67.5°	7545.0	3734.9	1250.4	1293.1	1436.2	1727.5	1978.5	1756.3	1510.2	1455.0	1424.9
70°	4442.8	2338.8	1158.8	1203.9	1328.2	1596.9	1860.5	1654.6	1408.6	1383.4	1344.5
72.5°	2067.7	1407.3	1054.5	1098.5	1192.7	1422.4	1708.6	1521.5	1288.1	1232.8	1180.1
75°	1234.0	1029.5	931.5	970.4	1037.0	1236.5	1517.8	1386.0	1173.8	1101.0	1045.8
77.5°	922.7	787.2	795.9	837.4	891.3	1082.2	1344.5	1279.3	1085.9	1029.5	991.7
80°	664.1	597.6	649.0	694.2	750.7	984.3	1288.1	1182.6	981.8	906.4	871.3
82.5°	443.1	429.4	488.3	534.8	590.0	861.2	1210.2	1035.7	838.6	743.2	665.4
85°	244.8	258.6	328.9	349.0	396.7	606.3	991.7	832.3	631.5	508.4	485.8
87.5°	101.7	119.2	177.0	170.8	210.9	361.5	652.8	502.2	401.7	300.1	233.5
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)