

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: P383265

Luminaire Tested: **GLEON-SA5D-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36936.8 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

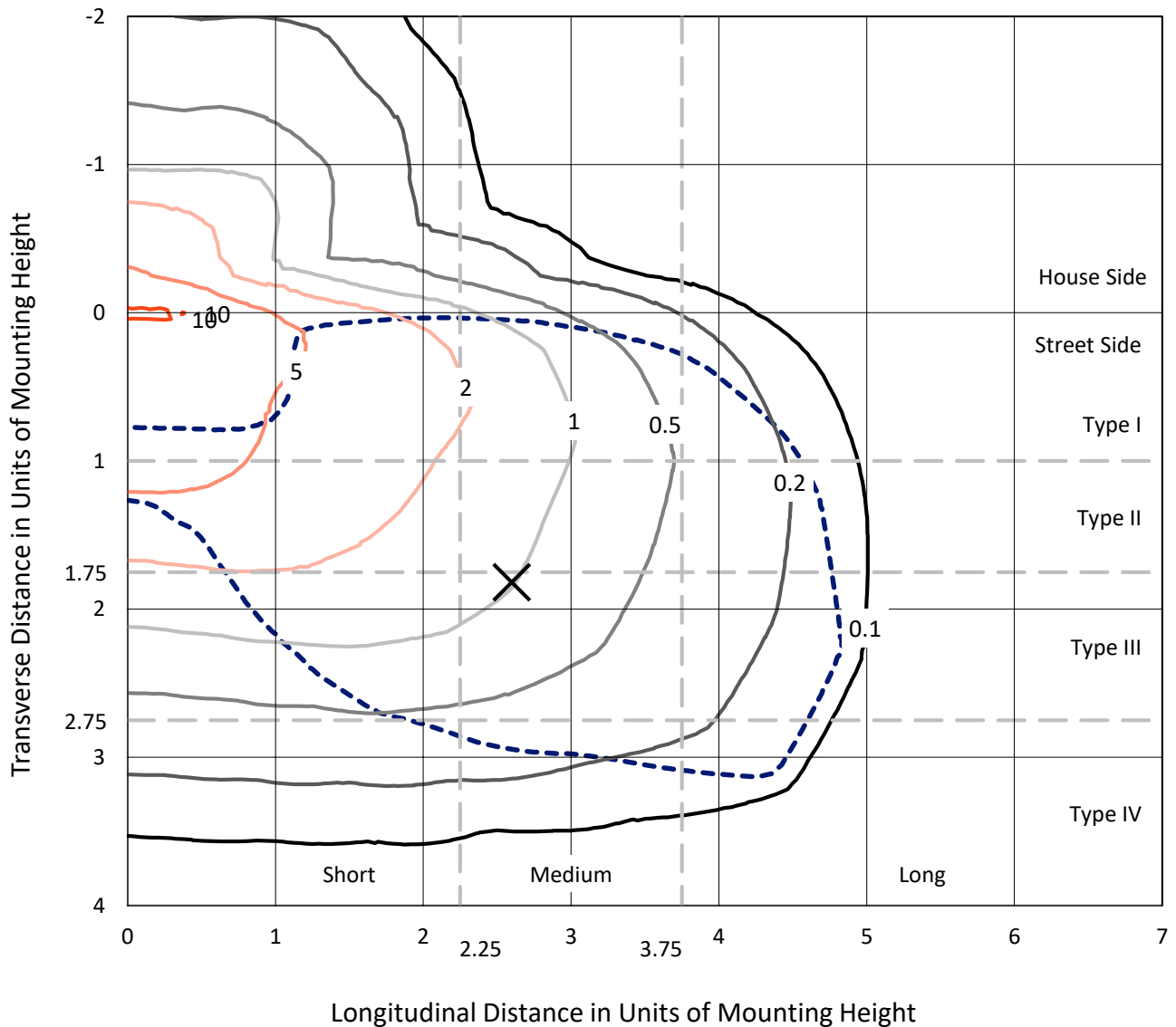
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

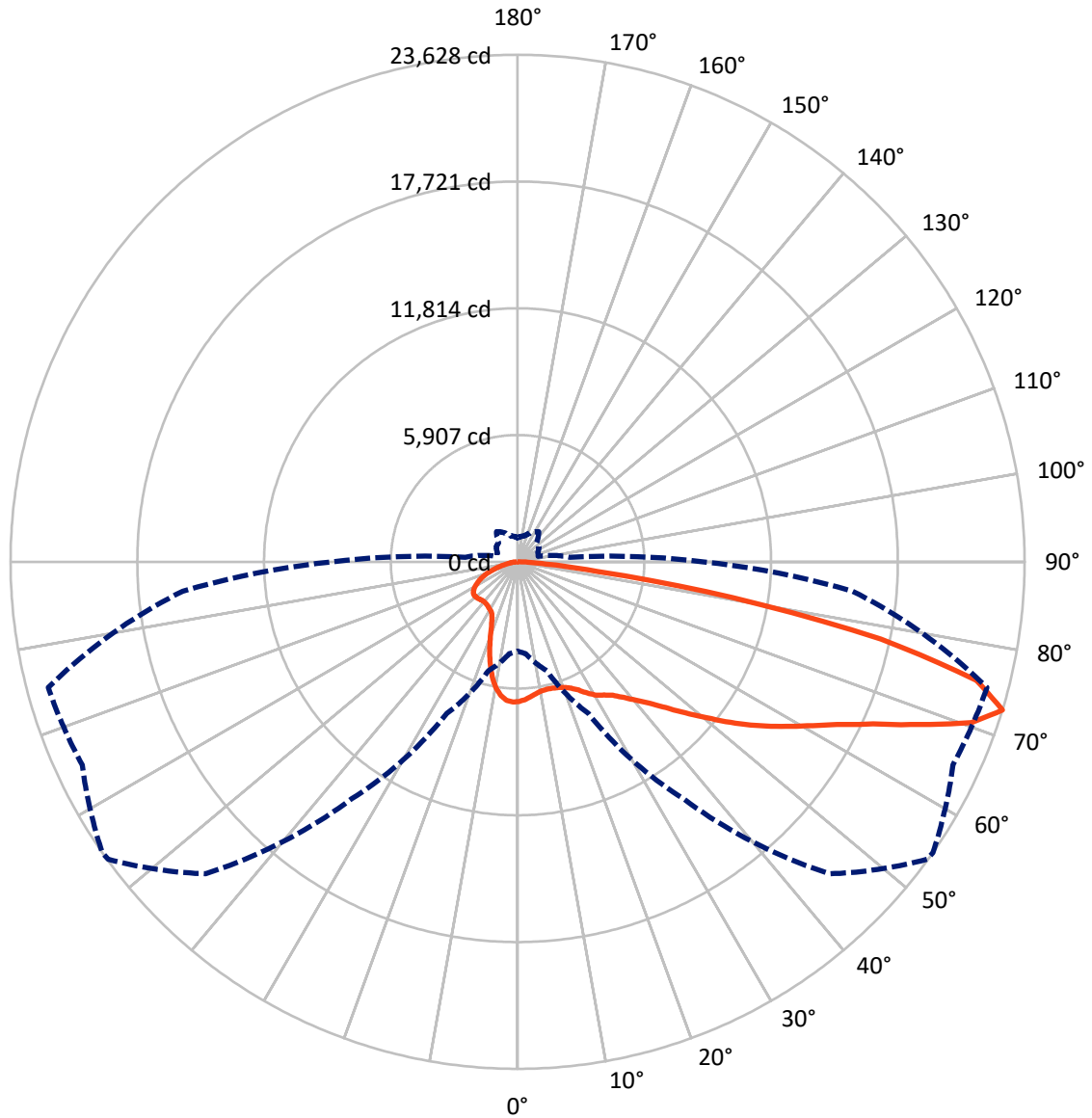
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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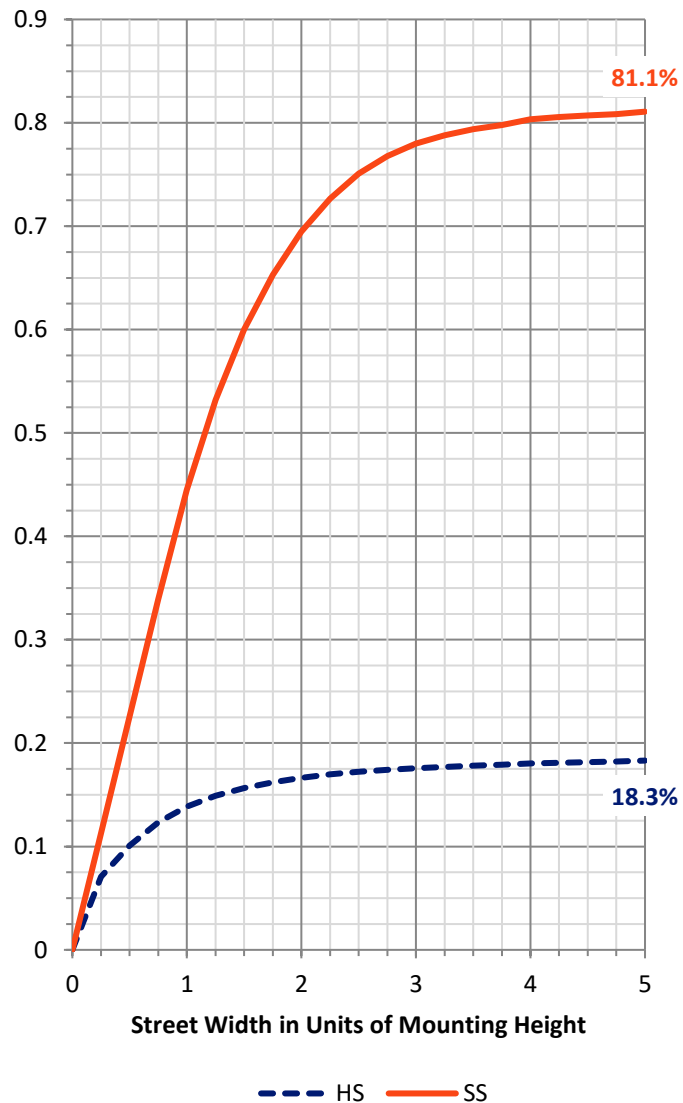
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6865.3	0.0	6865.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30071.5	0.0	30071.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	36936.8	0.0	36936.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.5	1.6
10°-20°	1569.5	4.2
20°-30°	2587.7	7.0
30°-40°	3827.9	10.4
40°-50°	5343.0	14.5
50°-60°	6956.7	18.8
60°-70°	8549.6	23.1
70°-80°	6701.9	18.1
80°-90°	811.0	2.2
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°	36936.8	100.0
0°-180°	36936.8	100.0

Coefficient of Utilization

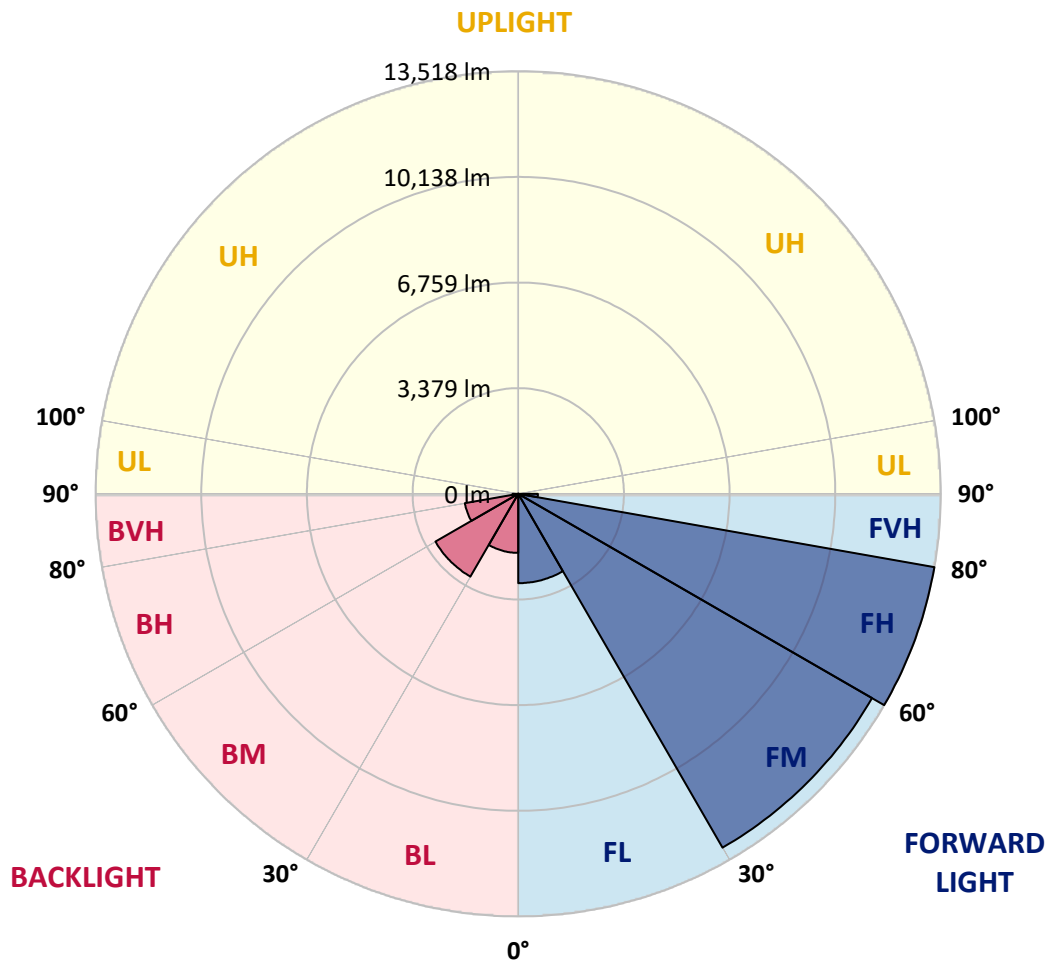


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.8	7.7			
FM (30°-60°)	13069.0	35.4			
FH (60°-80°)	13517.6	36.6			G5
FVH (80°-90°)	627.0	1.7			G4/750
BL (0°-30°)	1888.9	5.1	B3/2500		
BM (30°-60°)	3058.6	8.3	B3/5000		
BH (60°-80°)	1733.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	184.0	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6302.8	6287.8	6306.5	6332.8	6361.4	6400.1	6422.6	6432.5	6471.2	6486.2	6518.6
5°	6010.8	6003.4	6034.6	6079.5	6143.1	6232.9	6305.3	6319.0	6421.3	6493.6	6559.8
7.5°	5798.8	5798.8	5834.9	5888.6	5959.7	6080.7	6183.0	6201.7	6375.1	6531.1	6653.3
10°	5630.4	5636.5	5679.0	5742.6	5826.2	5954.7	6090.6	6111.9	6362.7	6618.4	6813.1
12.5°	5518.0	5533.0	5571.7	5629.1	5732.7	5888.6	6060.7	6089.4	6388.8	6743.2	7005.1
15°	5589.2	5614.1	5617.9	5641.5	5698.9	5868.6	6078.2	6108.2	6445.0	6870.4	7223.5
17.5°	5901.1	5909.7	5871.1	5821.2	5793.8	5902.3	6130.6	6161.8	6512.4	6996.4	7433.1
20°	6375.1	6370.1	6286.5	6151.8	6012.1	6029.5	6216.7	6249.1	6603.5	7107.4	7642.7
22.5°	6973.9	6956.5	6828.0	6579.7	6341.4	6241.6	6367.7	6395.1	6740.7	7265.9	7867.2
25°	7700.1	7661.4	7491.7	7158.6	6808.0	6551.0	6594.7	6620.9	6940.3	7443.1	8073.1
27.5°	8466.1	8427.4	8211.6	7808.6	7342.0	6941.5	6907.8	6930.3	7167.3	7574.0	8225.3
30°	9267.0	9225.9	9028.7	8577.1	7908.4	7345.7	7199.7	7208.5	7327.0	7645.1	8350.0
32.5°	10071.7	10033.0	9812.2	9288.2	8523.5	7779.9	7410.6	7399.4	7423.1	7718.8	8491.1
35°	10887.6	10902.6	10644.3	10064.3	9204.6	8262.7	7660.1	7636.5	7584.0	7869.7	8690.6
37.5°	11760.9	11750.9	11416.6	10810.2	9917.0	8786.7	8018.2	8014.5	7833.6	8155.4	9003.8
40°	12344.8	12351.0	12147.7	11573.8	10636.9	9366.8	8477.3	8468.6	8231.5	8583.4	9414.2
42.5°	12573.1	12614.3	12666.6	12302.4	11390.4	10039.3	9025.0	9012.5	8786.7	9197.2	9897.0
45°	12589.3	12671.7	12996.0	12949.9	12153.9	10809.0	9724.9	9690.0	9527.8	10013.1	10473.4
47.5°	12449.6	12534.4	13073.3	13335.4	12836.4	11621.1	10543.3	10515.9	10376.1	11033.6	11097.2
50°	12143.9	12225.0	12913.7	13523.7	13397.7	12402.2	11486.4	11414.1	11339.3	12212.6	11810.8
52.5°	11571.3	11727.3	12700.3	13568.6	13733.3	13095.8	12478.3	12430.9	12472.0	13456.4	12525.7
55°	10215.2	10389.8	12150.2	13531.2	13981.6	13678.5	13470.1	13467.6	13681.0	14761.4	13292.9
57.5°	9455.4	9578.9	11029.8	13467.6	14276.1	14257.3	14451.9	14475.7	14891.1	16182.4	14096.4
60°	9026.2	9156.0	10462.2	13231.8	14732.6	15005.8	15453.7	15501.1	16121.2	17755.6	15063.3
62.5°	8635.7	8778.0	10110.4	12751.5	15270.4	16076.3	16653.9	16696.3	17423.7	19372.4	15997.7
65°	7968.3	8129.2	9595.1	12435.9	15759.5	17472.3	18179.7	18208.4	18919.5	21066.6	16712.5
67.5°	7025.1	7172.4	8623.2	11738.4	16121.2	19167.8	20208.2	20224.5	20402.9	22263.1	17078.1
70°	5923.5	5979.6	7238.5	10298.7	15693.3	20753.5	22431.5	22435.2	21755.3	23029.1	17018.3
72.5°	4162.0	4294.2	5254.8	7796.1	13486.3	20560.1	23585.5	23627.9	22384.1	22642.3	15658.4
75°	2552.5	2692.3	3296.1	4724.6	8555.9	16169.9	21791.4	22085.9	21205.1	20188.3	12791.5
77.5°	1706.7	1759.0	2150.9	2754.7	3876.3	9303.2	16753.7	17307.7	17615.8	14722.6	8180.4
80°	951.9	1051.7	1426.0	1711.7	1724.1	3696.6	10045.5	10175.3	9801.0	5862.4	2523.8
82.5°	504.1	558.9	951.9	1005.5	940.7	1237.6	3744.0	3747.7	3131.4	1572.0	749.8
85°	390.5	436.6	652.5	613.8	480.3	549.0	1235.1	1302.5	1065.4	643.8	244.5
87.5°	194.6	242.0	442.9	389.2	188.4	157.2	441.6	471.5	420.4	252.0	88.6
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°	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9	6514.9
2.5°	6531.1	6542.3	6556.0	6541.0	6536.1	6516.1	6482.5	6474.9	6457.5	6458.7	6468.7
5°	6588.5	6607.2	6599.7	6542.3	6473.7	6377.7	6277.8	6193.0	6136.8	6133.1	6129.4
7.5°	6698.3	6710.7	6652.1	6488.7	6296.5	6074.4	5864.8	5681.5	5570.5	5543.0	5536.7
10°	6870.4	6867.9	6707.0	6377.7	5994.6	5597.9	5261.0	5006.5	4858.1	4814.4	4803.2
12.5°	7062.5	7033.8	6725.7	6175.5	5568.0	5017.8	4591.1	4307.8	4153.2	4103.3	4090.8
15°	7260.9	7189.8	6679.6	5873.6	5044.0	4392.7	3944.8	3682.9	3599.2	3571.8	3566.8
17.5°	7445.6	7308.3	6547.3	5464.4	4446.4	3770.2	3420.8	3316.0	3336.1	3372.2	3373.4
20°	7626.5	7388.2	6335.2	4947.9	3816.4	3257.4	3138.9	3216.3	3311.1	3384.7	3394.7
22.5°	7804.9	7444.3	6062.0	4351.5	3252.4	2969.2	3052.9	3193.8	3302.3	3382.2	3395.9
25°	7954.6	7458.1	5685.2	3715.3	2860.7	2860.7	3011.7	3145.2	3252.4	3331.0	3344.7
27.5°	8009.4	7365.7	5153.8	3126.5	2663.6	2810.8	2954.3	3065.3	3156.4	3239.9	3254.9
30°	8030.7	7194.8	4539.9	2653.6	2582.5	2757.2	2876.9	2971.7	3057.8	3136.4	3150.1
32.5°	8034.4	6988.9	3888.7	2385.4	2526.4	2701.0	2780.9	2864.4	2956.7	2987.9	2993.0
35°	8058.1	6745.6	3202.6	2248.1	2473.9	2648.6	2712.2	2772.1	2622.4	2633.7	2643.6
37.5°	8126.7	6504.9	2628.6	2170.8	2440.3	2621.2	2697.3	2480.2	2362.9	2335.5	2331.8
40°	8255.2	6247.9	2203.2	2108.4	2427.8	2634.9	2601.2	2315.5	2113.4	1962.4	1939.9
42.5°	8433.7	5970.9	1931.3	2067.2	2436.6	2701.0	2467.7	2157.1	1821.5	1724.1	1711.7
45°	8634.5	5680.2	1784.0	2038.5	2466.5	2752.2	2440.3	1946.2	1685.4	1611.9	1605.6
47.5°	8829.1	5324.6	1707.9	2026.0	2507.6	2711.0	2324.2	1881.4	1620.6	1582.0	1585.7
50°	9052.4	5004.0	1661.8	2012.3	2543.8	2684.8	2193.2	1847.6	1595.6	1643.1	1693.0
52.5°	9240.9	4672.2	1620.6	1984.9	2557.6	2638.6	2159.5	1853.9	1595.6	1686.8	1734.2
55°	9464.2	4421.4	1573.2	1927.5	2531.3	2507.6	2135.9	1891.3	1614.4	1557.0	1561.9
57.5°	9752.3	4339.1	1520.8	1837.7	2444.0	2316.8	2124.6	1927.5	1603.1	1567.0	1579.4
60°	10151.5	4426.4	1499.6	1720.4	2308.0	2167.1	2125.9	1908.8	1524.6	1462.2	1463.4
62.5°	10532.1	4523.7	1498.3	1646.8	2140.9	2033.6	2097.2	1847.6	1484.6	1448.5	1462.2
65°	10656.8	4425.1	1438.5	1564.4	1952.4	1873.9	2044.7	1782.8	1454.7	1399.7	1397.3
67.5°	10489.6	4119.5	1317.5	1431.0	1736.6	1688.0	1976.2	1705.5	1407.3	1362.4	1354.8
70°	9993.1	3437.0	1167.7	1255.1	1490.8	1478.4	1867.7	1615.6	1343.7	1305.0	1272.5
72.5°	8657.0	2449.0	984.4	1044.3	1213.9	1253.9	1718.0	1498.3	1253.9	1170.2	1120.3
75°	7109.9	1812.7	808.4	820.9	922.0	1030.5	1512.1	1361.1	1147.8	1005.5	966.9
77.5°	4354.1	1109.1	643.8	648.7	661.2	822.2	1245.1	1207.7	1013.1	838.4	810.9
80°	1409.8	605.0	465.3	489.1	451.6	602.6	963.1	1028.0	869.6	701.2	671.2
82.5°	536.5	353.1	314.4	330.6	313.2	404.2	702.4	823.4	712.4	576.3	469.1
85°	259.5	199.6	185.8	208.4	193.4	207.1	449.1	606.3	540.2	375.5	349.3
87.5°	92.3	88.6	71.1	96.0	82.3	73.6	137.2	305.6	356.8	258.2	230.8
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)