

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: P317559

Luminaire Tested: **GLEON-SA5B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21874 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

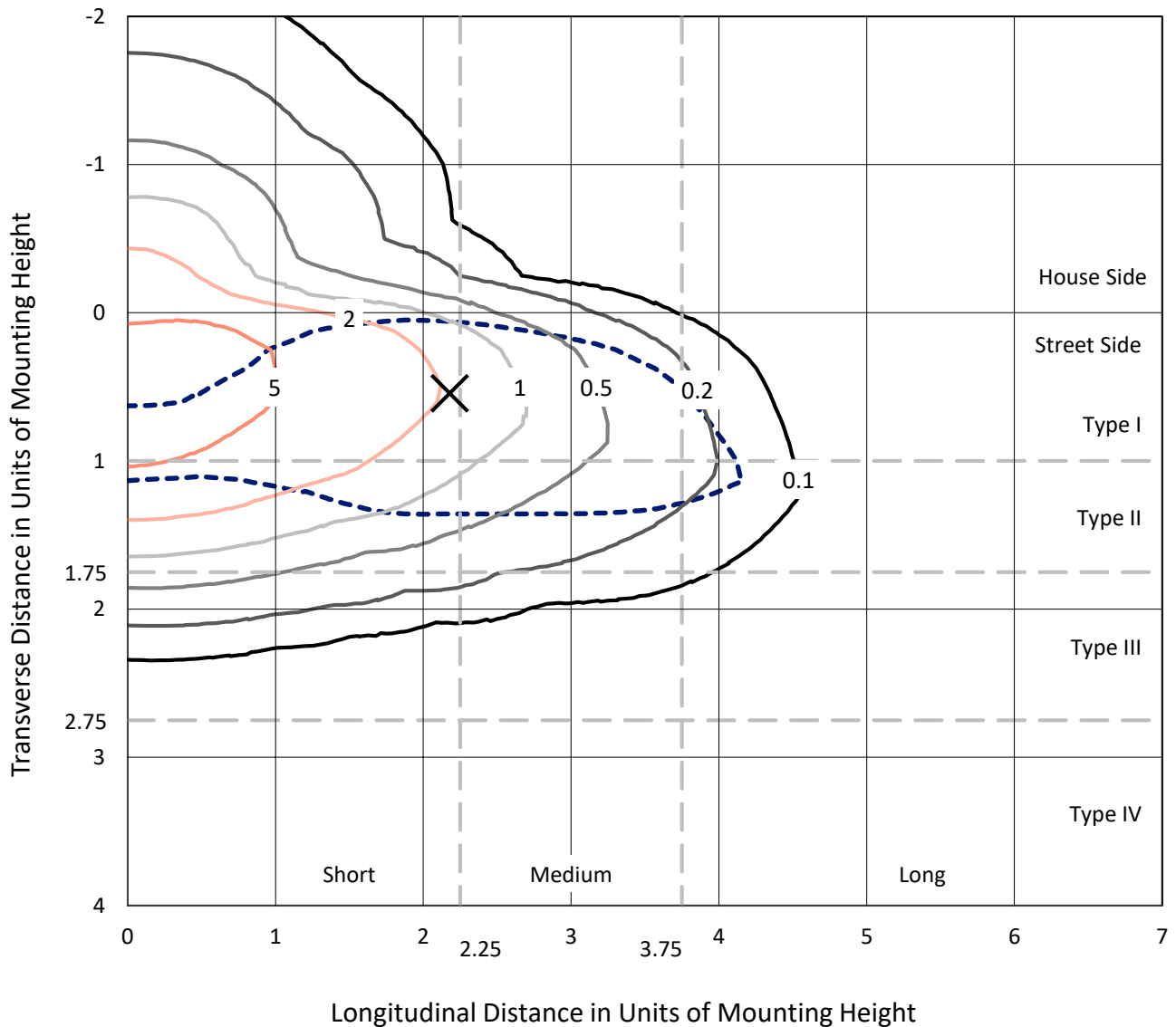
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

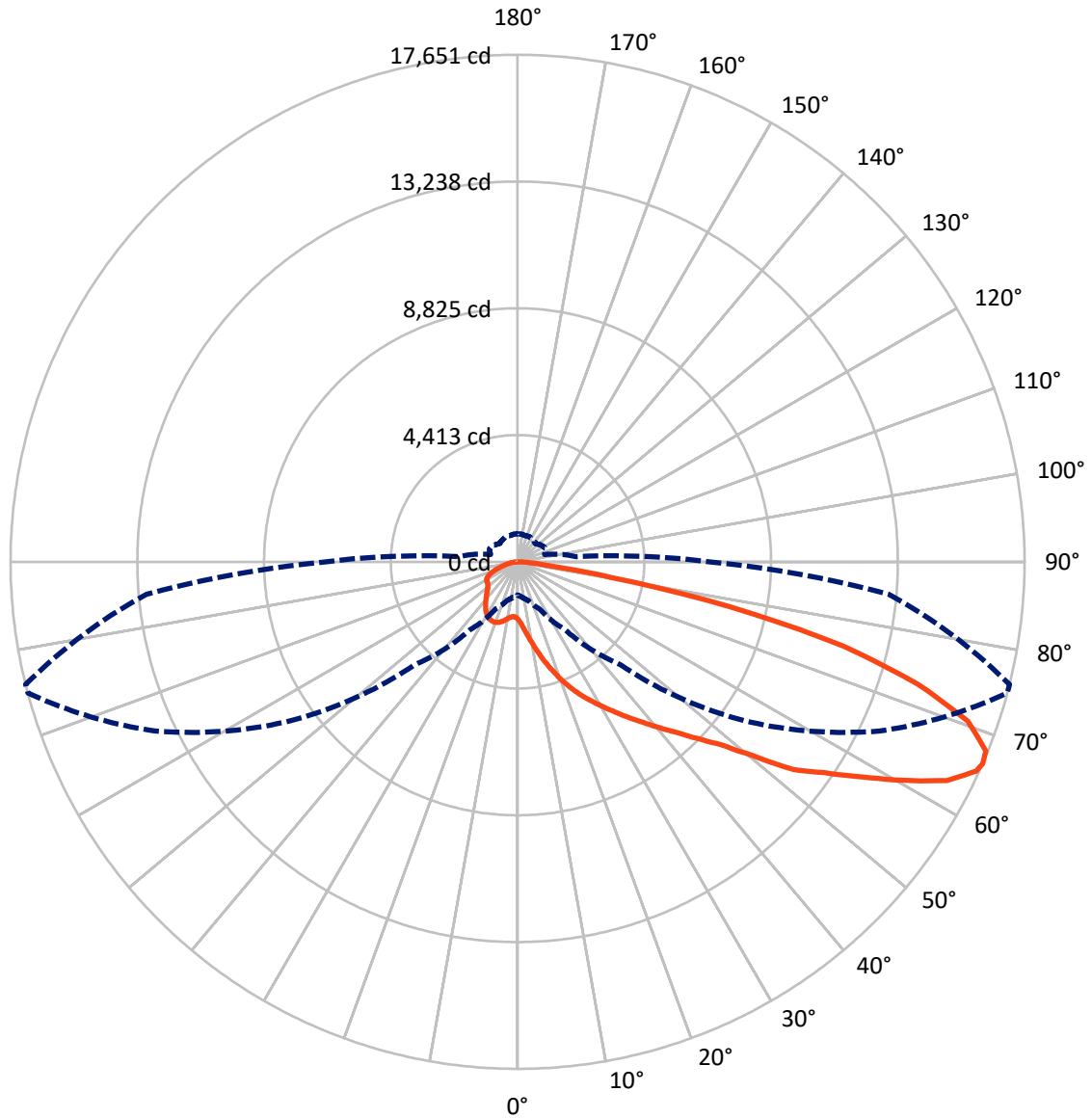
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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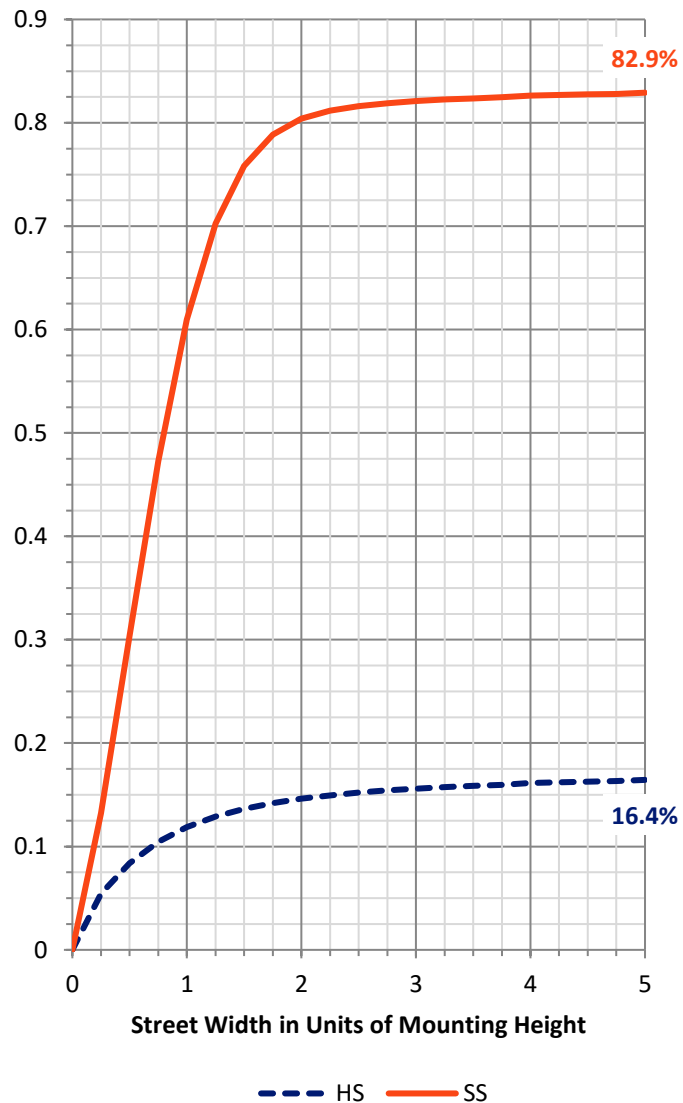
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3680.6	0.0	3680.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18193.4	0.0	18193.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	21874.0	0.0	21874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.1
10°-20°	953.9	4.4
20°-30°	1853.7	8.5
30°-40°	3025.6	13.8
40°-50°	4133.7	18.9
50°-60°	4815.0	22.0
60°-70°	4316.7	19.7
70°-80°	2181.5	10.0
80°-90°	352.3	1.6
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°	21874.0	100.0
0°-180°	21874.0	100.0

Coefficient of Utilization



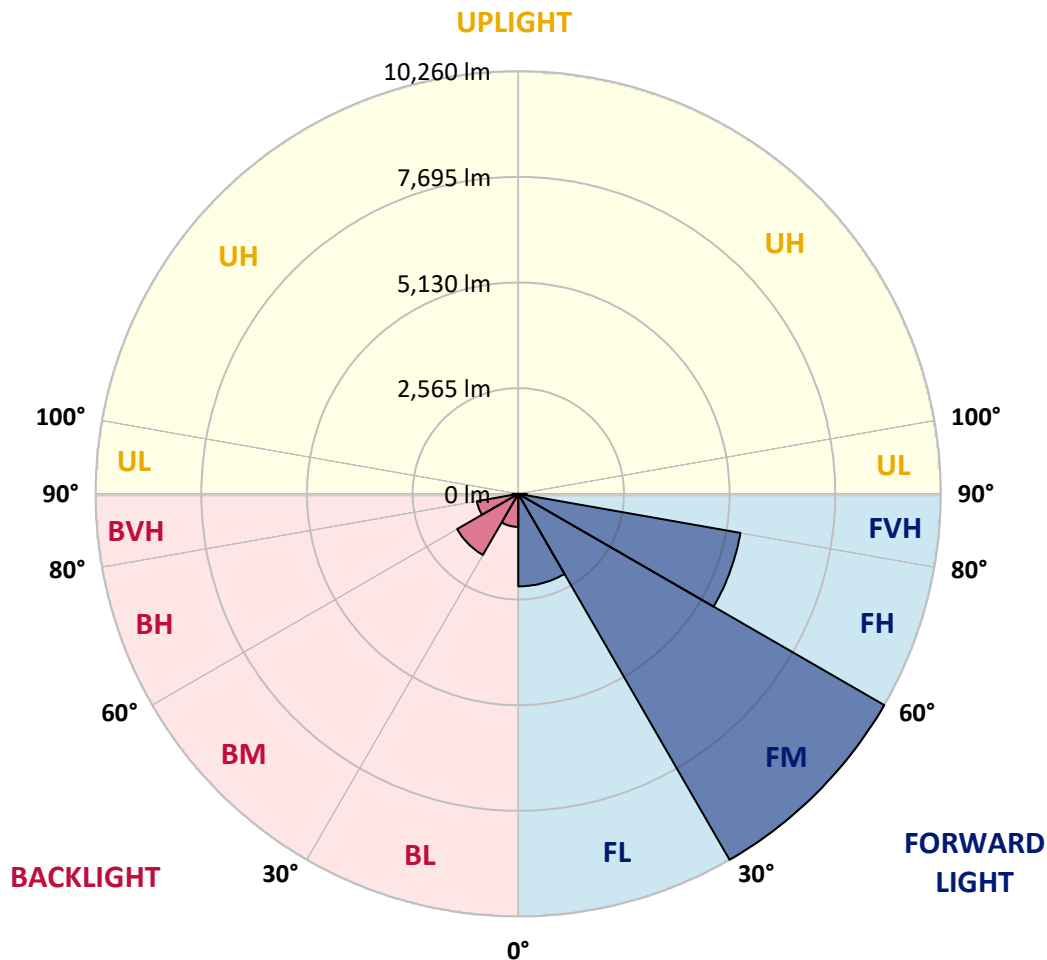
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2246.4	10.3			
FM (30°-60°)	10260.4	46.9			
FH (60°-80°)	5478.5	25.0			G3/7500
FVH (80°-90°)	208.0	1.0			G2/225
BL (0°-30°)	802.8	3.7	B2/1000		
BM (30°-60°)	1713.9	7.8	B2/2500		
BH (60°-80°)	1019.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	144.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6
2.5°	2651.8	2611.7	2608.0	2549.3	2536.0	2423.8	2341.4	2255.3	2157.2	2137.9	2060.7
5°	3406.3	3402.6	3351.3	3255.6	3180.5	2989.0	2799.6	2599.1	2379.3	2343.6	2169.9
7.5°	4085.0	4079.1	4039.7	3936.5	3828.1	3592.7	3322.4	3014.9	2658.5	2605.8	2317.6
10°	4600.4	4598.2	4584.8	4509.1	4417.0	4191.2	3892.7	3473.1	2983.0	2911.0	2502.6
12.5°	4998.4	5002.9	5011.8	4985.1	4941.2	4748.9	4443.0	3958.8	3329.1	3257.8	2708.3
15°	5268.0	5281.4	5327.4	5365.3	5388.3	5270.2	4973.9	4455.6	3716.7	3631.3	2936.2
17.5°	5403.9	5418.7	5498.2	5612.6	5718.0	5706.1	5470.7	4929.4	4088.7	4006.3	3181.3
20°	5521.2	5532.4	5621.5	5758.9	5945.2	6027.7	5895.5	5385.3	4496.4	4398.4	3441.2
22.5°	5861.3	5875.4	5902.2	5980.1	6145.0	6296.5	6232.6	5816.8	4870.0	4778.6	3687.7
25°	6517.8	6534.9	6476.9	6410.9	6442.0	6547.5	6559.4	6210.3	5248.7	5145.5	3952.9
27.5°	7308.7	7333.2	7234.4	7064.3	6915.8	6875.0	6860.9	6532.6	5610.3	5490.8	4215.0
30°	8083.2	8125.5	7997.0	7776.5	7504.0	7312.4	7170.5	6848.2	5966.8	5852.4	4462.3
32.5°	8839.9	8822.8	8636.4	8421.1	8101.7	7861.9	7518.8	7186.9	6367.8	6236.3	4708.1
35°	9358.2	9364.2	9191.1	8935.7	8631.2	8447.1	7985.2	7552.2	6777.0	6655.9	4987.3
37.5°	9799.3	9771.9	9575.8	9337.4	9075.3	8996.6	8531.0	7954.7	7220.3	7088.1	5284.3
40°	9946.4	9914.4	9786.0	9614.4	9404.3	9397.6	9133.2	8410.7	7721.5	7590.8	5619.2
42.5°	9857.3	9816.4	9763.7	9716.9	9652.3	9682.0	9699.1	8945.3	8272.5	8126.3	6006.9
45°	9528.3	9466.6	9503.8	9605.5	9745.9	9913.7	10210.0	9537.2	8889.6	8767.1	6462.1
47.5°	9022.6	8966.9	9082.7	9300.3	9682.0	10106.8	10693.4	10190.7	9626.3	9504.5	7110.4
50°	8311.2	8327.5	8493.1	8888.9	9465.9	10195.9	11289.0	11055.8	10697.1	10583.5	7994.8
52.5°	7143.8	7146.8	7613.1	8262.9	9082.7	10149.8	11619.4	12161.5	12159.3	12021.9	8836.9
55°	6059.6	6125.7	6494.8	7358.4	8461.9	9965.7	11850.4	12699.2	13119.5	12958.3	9621.8
57.5°	5000.7	5039.3	5389.0	6256.4	7576.0	9474.8	12087.3	13344.5	14226.0	14124.2	10597.6
60°	3796.2	3855.6	4217.2	5018.5	6442.8	8603.7	12109.6	14018.0	15548.5	15446.0	11687.0
62.5°	2463.9	2566.4	2905.0	3655.8	5071.9	7351.0	11592.7	14458.4	16802.0	16765.6	12653.9
65°	1416.1	1493.4	1728.8	2308.0	3499.1	5778.2	10363.7	14289.1	17573.6	17552.8	13015.5
66°	1157.0	1205.2	1385.7	1803.8	2887.2	5074.2	9649.3	13931.9	17650.1	17650.8	12973.9
67.5°	925.3	946.8	1027.8	1291.4	2130.5	4021.9	8372.8	13144.0	17555.0	17581.0	12705.9
70°	765.6	776.8	802.0	865.9	1162.9	2425.3	5943.0	11096.6	16600.8	16620.8	11659.5
72.5°	686.9	693.6	703.2	712.2	820.6	1355.2	3629.8	8877.0	14554.9	14580.9	10065.2
75°	622.3	626.0	624.5	625.3	688.4	863.6	1875.8	6627.7	11768.7	11716.7	7710.4
77.5°	546.6	550.3	542.8	544.3	608.9	663.9	933.4	4639.8	7942.1	7575.2	4344.2
80°	461.9	464.9	461.9	467.1	530.2	501.3	542.8	2610.2	3511.7	3321.6	1544.6
82.5°	349.0	361.6	370.6	391.3	436.6	356.4	363.1	1016.6	1069.3	1018.1	473.8
85°	153.0	186.4	279.2	299.3	328.2	213.9	238.4	414.4	435.2	421.8	172.3
87.5°	40.1	43.8	138.1	173.8	181.9	96.5	124.0	188.6	199.0	188.6	57.2
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°	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6
2.5°	2019.9	1983.5	1918.1	1860.2	1816.4	1786.7	1757.0	1742.1	1733.2	1724.3	1725.8
5°	2084.5	2011.0	1898.8	1819.4	1774.8	1746.6	1731.7	1725.8	1722.1	1713.2	1713.2
7.5°	2181.8	2077.8	1923.3	1841.6	1806.7	1785.2	1776.3	1773.3	1768.9	1758.5	1760.0
10°	2304.3	2158.7	1974.6	1895.1	1863.2	1839.4	1826.8	1822.3	1814.2	1802.3	1803.8
12.5°	2448.3	2259.0	2042.1	1959.0	1920.4	1888.4	1867.6	1855.0	1840.9	1825.3	1826.0
15°	2605.8	2368.1	2114.9	2016.2	1963.4	1918.9	1885.5	1863.9	1841.6	1822.3	1821.6
17.5°	2765.4	2473.6	2170.6	2047.3	1976.1	1917.4	1872.1	1838.7	1811.2	1787.4	1785.2
20°	2937.7	2568.6	2201.8	2044.4	1952.3	1882.5	1822.3	1780.8	1750.3	1726.5	1722.8
22.5°	3113.0	2657.8	2207.0	2013.9	1899.6	1814.2	1751.0	1705.0	1673.8	1649.3	1640.4
25°	3273.4	2726.8	2185.5	1955.3	1826.0	1734.0	1672.3	1625.5	1600.3	1571.3	1562.4
27.5°	3419.7	2775.1	2142.4	1880.3	1743.6	1653.0	1595.1	1555.0	1527.5	1505.2	1497.8
30°	3551.1	2801.1	2071.8	1791.1	1659.0	1576.5	1527.5	1500.0	1476.3	1448.1	1442.9
32.5°	3675.9	2801.1	1981.3	1693.9	1575.1	1509.0	1480.0	1462.9	1436.2	1408.7	1401.3
35°	3800.6	2784.0	1874.3	1592.1	1497.8	1460.7	1459.2	1439.2	1398.3	1361.2	1351.5
37.5°	3932.1	2749.1	1754.0	1497.1	1434.7	1439.2	1451.8	1407.2	1349.3	1296.6	1282.5
40°	4080.6	2700.8	1629.3	1414.6	1382.0	1429.5	1431.7	1361.2	1248.3	1200.0	1187.4
42.5°	4255.1	2652.6	1513.4	1341.9	1340.4	1400.5	1393.9	1261.7	1194.1	1169.6	1162.9
45°	4484.6	2625.1	1403.5	1272.8	1307.7	1353.8	1329.3	1206.7	1178.5	1164.4	1158.5
47.5°	4846.2	2639.2	1302.5	1217.9	1275.0	1307.0	1209.0	1184.4	1164.4	1147.3	1141.4
50°	5299.2	2631.0	1220.8	1180.0	1237.9	1258.0	1154.7	1155.5	1145.1	1125.8	1116.9
52.5°	5640.0	2567.2	1168.1	1158.5	1205.2	1171.1	1120.6	1127.3	1122.1	1093.8	1084.2
55°	5969.0	2512.2	1141.4	1150.3	1181.5	1062.7	1080.5	1096.8	1091.6	1064.1	1059.7
57.5°	6378.2	2501.8	1125.0	1152.5	1161.4	1008.4	1041.9	1063.4	1059.7	1047.8	1045.6
60°	6879.4	2504.8	1110.2	1156.2	1139.1	968.3	1005.5	1033.0	1035.2	1033.0	1031.5
62.5°	7154.9	2423.8	1073.1	1145.8	1099.8	933.4	967.6	1007.7	1008.4	1012.9	1012.2
65°	6921.0	2181.8	1004.0	1109.4	1033.7	904.5	934.9	978.7	967.6	987.7	987.7
66°	6693.8	2042.1	969.8	1085.7	1005.5	893.3	924.5	963.9	949.8	977.3	977.3
67.5°	6229.7	1806.7	908.2	1035.2	965.4	877.8	912.7	939.4	920.1	960.9	958.0
70°	5381.6	1397.6	784.2	920.8	899.3	854.7	896.3	890.4	862.2	924.5	912.7
72.5°	4537.3	1061.9	629.7	770.8	799.0	825.8	873.3	828.0	792.4	836.2	810.2
75°	3520.7	798.3	497.5	599.3	675.0	780.5	845.8	756.0	704.7	700.3	686.2
77.5°	1903.3	548.0	394.3	457.4	536.2	724.0	827.3	678.7	601.5	583.7	572.5
80°	753.7	356.4	286.6	346.8	375.0	642.3	782.7	588.9	496.1	478.2	461.2
82.5°	311.1	210.9	184.9	232.4	244.3	549.5	702.5	482.7	383.2	530.2	562.9
85°	133.7	115.8	109.9	120.3	138.1	385.4	559.2	368.3	413.6	369.1	293.3
87.5°	40.1	49.0	46.8	46.0	50.5	92.1	297.8	205.0	303.7	115.1	86.1
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)