

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: P949128

Luminaire Tested: **GALN-SB4A-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15127 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 114
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

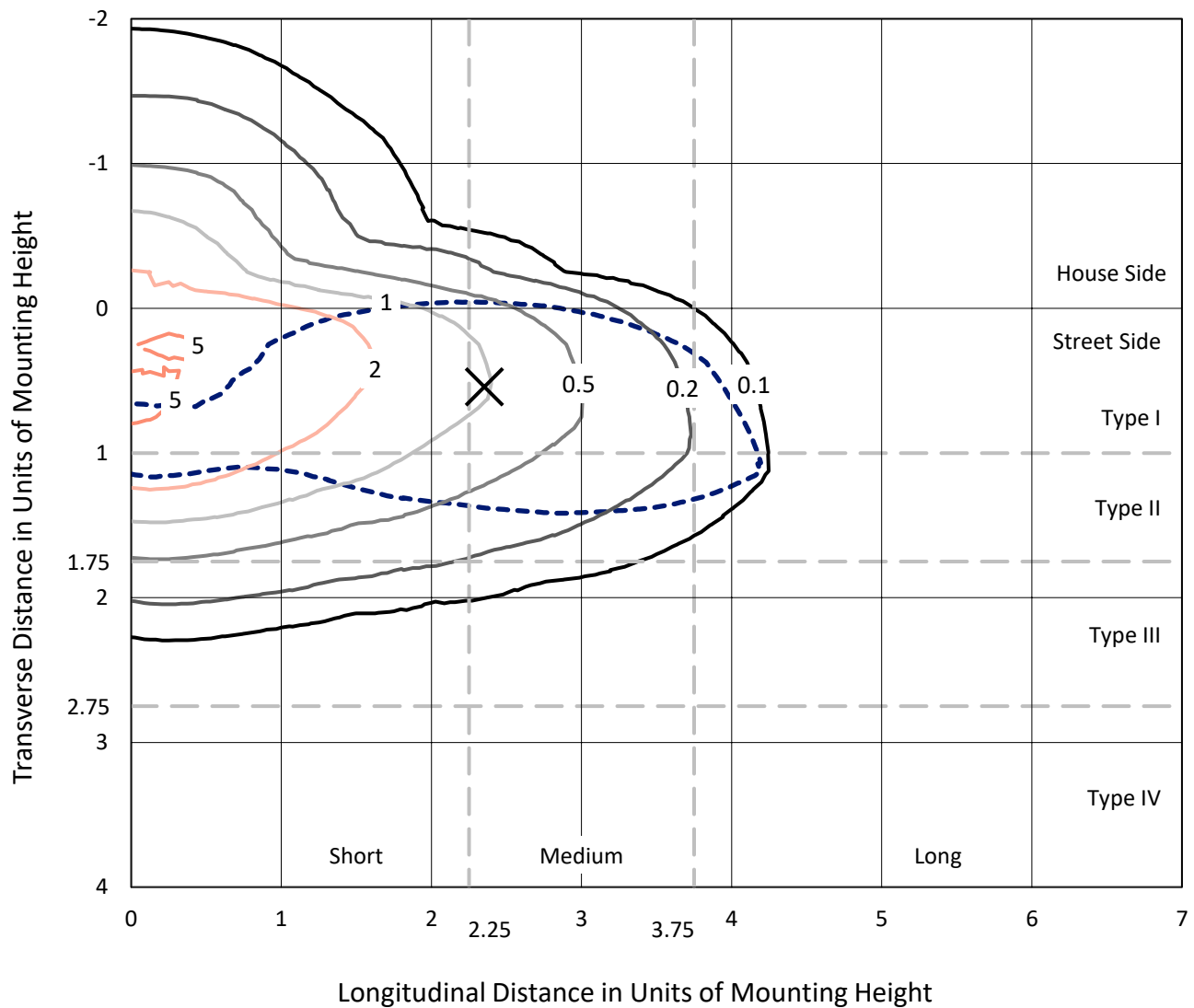


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Iso-Footcandle Lines of Horizontal Illumination

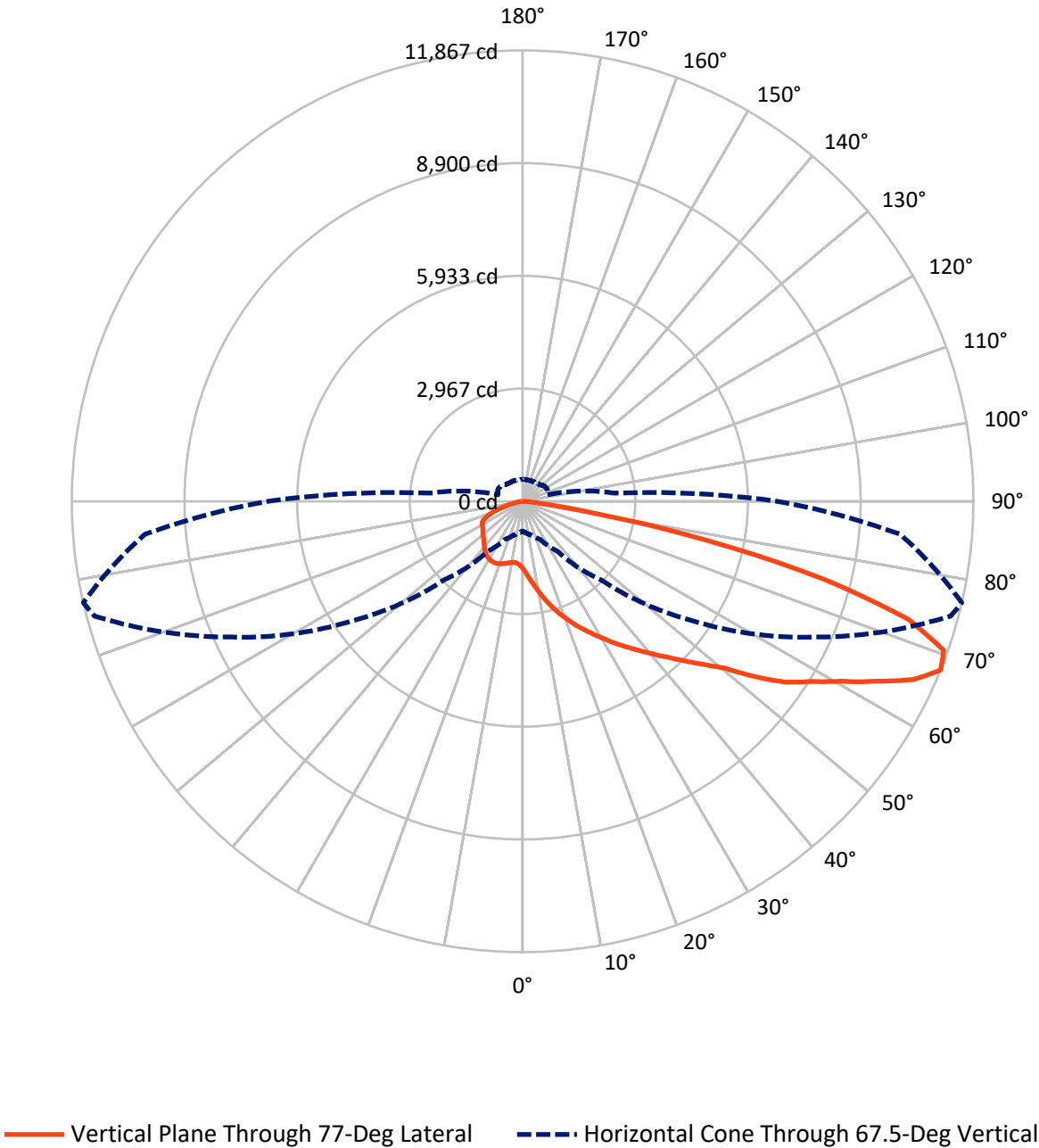
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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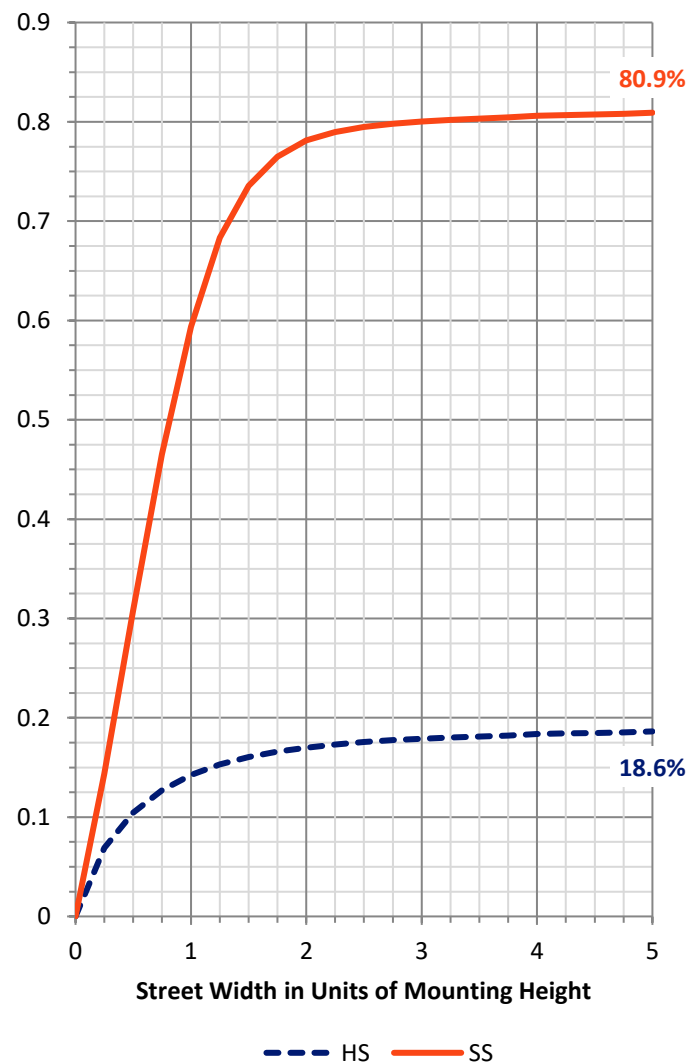
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2861.4	0.0	2861.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	12265.6	0.0	12265.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	15127.0	0.0	15127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	1.3
10°-20°	683.5	4.5
20°-30°	1290.4	8.5
30°-40°	2078.9	13.7
40°-50°	2843.5	18.8
50°-60°	3207.5	21.2
60°-70°	2993.8	19.8
70°-80°	1641.1	10.8
80°-90°	198.0	1.3
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°	15127.0	100.0
0°-180°	15127.0	100.0

Coefficient of Utilization



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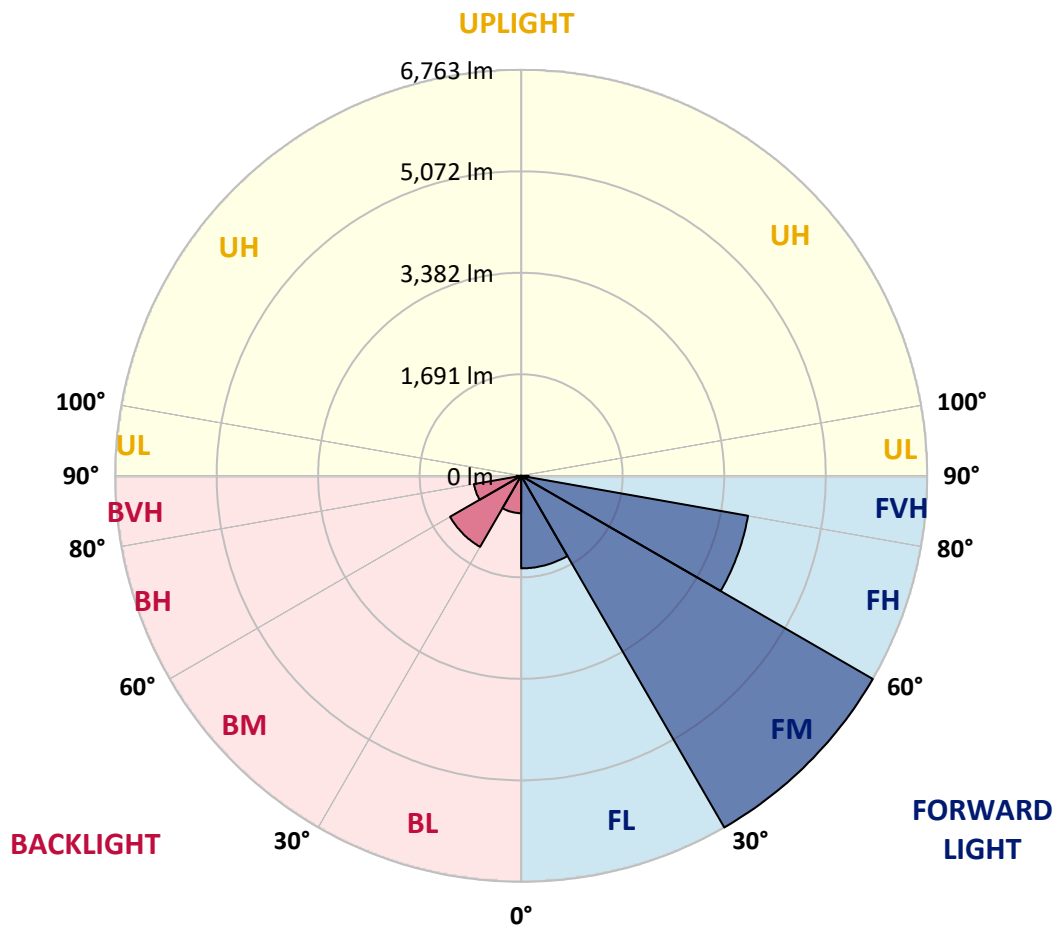
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.0	10.2			
FM	(30°-60°)	6763.1	44.7			
FH	(60°-80°)	3836.7	25.4			G2/5000
FVH	(80°-90°)	123.8	0.8			G2/225
BL	(0°-30°)	622.1	4.1	B2/1000		
BM	(30°-60°)	1366.8	9.0	B2/2500		
BH	(60°-80°)	798.3	5.3	B2/1000		G2/1000
BVH	(80°-90°)	74.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	2222.3	2237.9	2218.4	2218.4	2152.8	2118.4	2052.8	2002.9	1913.1	1897.5	1838.1
5°	2626.8	2646.3	2619.0	2607.3	2529.9	2458.9	2348.8	2240.3	2080.2	2063.8	1924.0
7.5°	2939.9	2964.9	2940.7	2928.2	2859.5	2779.8	2651.0	2499.5	2273.8	2241.8	2039.6
10°	3195.2	3199.1	3191.3	3196.0	3142.1	3076.5	2944.6	2768.1	2486.2	2442.5	2179.3
12.5°	3339.7	3357.6	3373.3	3401.4	3392.0	3351.4	3232.7	3021.9	2711.1	2654.9	2331.6
15°	3407.6	3438.9	3474.0	3538.8	3591.1	3601.3	3510.7	3294.4	2939.9	2872.0	2485.4
17.5°	3431.8	3461.5	3516.9	3610.6	3723.1	3798.8	3758.2	3559.1	3166.3	3088.3	2647.1
20°	3554.4	3563.0	3596.6	3685.6	3807.4	3933.1	3963.6	3813.7	3390.4	3302.2	2814.2
22.5°	3816.8	3799.6	3809.0	3849.6	3937.0	4058.8	4128.3	4038.5	3620.8	3519.3	2982.8
25°	4250.2	4200.2	4150.2	4103.4	4147.9	4216.6	4295.4	4263.4	3862.1	3733.2	3153.1
27.5°	4797.5	4736.6	4626.5	4472.7	4418.8	4443.0	4478.2	4471.9	4085.4	3955.0	3328.8
30°	5336.3	5265.3	5134.1	4911.5	4769.4	4705.4	4678.8	4660.9	4328.2	4189.2	3506.0
32.5°	5766.6	5710.3	5581.5	5332.4	5126.3	5016.9	4928.7	4864.7	4582.0	4443.0	3693.4
35°	6142.9	6090.6	5943.0	5671.3	5447.2	5330.8	5215.3	5078.6	4845.9	4705.4	3894.9
37.5°	6486.5	6434.2	6231.9	5949.3	5723.6	5643.2	5540.1	5308.2	5110.6	4977.9	4108.0
40°	6703.6	6691.9	6502.9	6182.8	5948.5	5908.7	5874.3	5574.5	5404.2	5280.9	4342.3
42.5°	6759.0	6784.8	6634.9	6371.7	6148.4	6116.4	6196.8	5875.9	5733.8	5615.9	4607.8
45°	6625.5	6699.7	6601.3	6422.5	6290.5	6273.3	6482.6	6205.4	6098.4	5990.7	4927.9
47.5°	6287.4	6413.1	6372.5	6347.5	6328.8	6403.0	6734.0	6555.2	6511.5	6417.8	5293.4
50°	5604.9	5843.1	5914.1	6071.9	6253.0	6503.7	6962.8	6937.1	6994.1	6899.6	5738.5
52.5°	4425.1	4753.0	5165.3	5560.4	6020.3	6470.1	7214.3	7485.2	7725.7	7674.2	6445.9
55°	3652.8	3800.4	4117.4	4842.0	5569.0	6328.8	7327.5	7927.9	8451.9	8405.8	6982.3
57.5°	3059.4	3191.3	3386.5	3991.7	4886.5	6007.8	7397.8	8198.1	8949.3	8944.6	7511.8
60°	2423.0	2562.7	2762.6	3191.3	4089.3	5453.4	7382.1	8505.8	9584.1	9623.2	8157.5
62.5°	1704.6	1858.4	2080.2	2480.0	3274.9	4735.1	7063.5	8728.3	10331.4	10437.6	8934.5
65°	1120.5	1222.0	1389.1	1734.3	2440.1	3811.3	6455.3	8757.2	11131.0	11310.6	9663.8
67.5°	785.5	824.6	923.0	1110.4	1608.5	2922.7	5486.2	8458.1	11664.3	11866.5	9980.0
70°	613.0	632.5	682.5	757.4	1010.4	1965.4	4204.1	7680.4	11550.3	11761.1	9649.7
72.5°	529.4	548.2	566.9	576.3	677.8	1213.4	2847.8	6421.7	10476.6	10619.5	8390.2
75°	480.2	484.9	500.5	497.4	516.9	787.1	1643.7	4678.8	8266.1	8216.9	6193.7
77.5°	403.7	409.9	435.7	431.8	459.1	538.0	853.5	3019.5	5359.0	5024.8	3447.4
80°	342.0	345.1	373.2	368.6	399.0	389.6	435.7	1539.1	2273.0	1925.6	994.0
82.5°	118.7	146.8	285.0	293.6	304.5	235.8	251.4	627.8	694.2	531.8	208.5
85°	57.8	61.7	145.2	206.1	205.4	118.7	122.6	224.1	218.6	171.8	69.5
87.5°	9.4	11.7	17.2	80.4	64.0	31.2	42.2	43.7	45.3	39.0	15.6
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°	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1794.4	1755.3	1673.4	1597.6	1538.3	1481.3	1449.3	1421.9	1406.3	1403.2	1403.2
5°	1842.8	1762.4	1613.2	1487.5	1405.5	1344.6	1312.6	1292.3	1282.2	1275.9	1275.1
7.5°	1912.3	1794.4	1582.0	1439.1	1353.2	1309.5	1293.1	1290.0	1289.2	1290.0	1292.3
10°	2008.3	1846.7	1578.9	1427.4	1355.6	1331.3	1330.6	1331.3	1334.5	1335.2	1336.0
12.5°	2112.2	1900.6	1591.4	1437.5	1385.2	1371.9	1369.6	1368.8	1371.2	1372.7	1373.5
15°	2225.4	1971.6	1612.5	1459.4	1418.0	1404.0	1401.6	1396.9	1396.2	1395.4	1394.6
17.5°	2341.8	2041.9	1635.9	1482.8	1439.1	1419.6	1411.0	1400.1	1391.5	1389.1	1391.5
20°	2459.7	2111.4	1652.3	1494.5	1440.7	1413.3	1396.2	1377.4	1362.6	1354.0	1357.1
22.5°	2585.4	2184.0	1662.4	1491.4	1426.6	1389.1	1357.9	1336.0	1313.4	1298.5	1299.3
25°	2708.0	2247.3	1661.6	1475.0	1399.3	1351.6	1311.8	1283.7	1252.5	1236.9	1236.9
27.5°	2825.9	2304.3	1642.1	1446.1	1360.2	1307.1	1259.5	1225.9	1195.5	1180.6	1179.9
30°	2947.7	2351.9	1611.7	1404.0	1314.2	1255.6	1203.3	1174.4	1147.1	1133.0	1132.2
32.5°	3068.7	2395.6	1568.7	1351.6	1261.1	1204.8	1153.3	1126.8	1110.4	1110.4	1111.1
35°	3196.8	2426.1	1511.7	1290.7	1204.8	1151.0	1110.4	1094.7	1093.2	1083.8	1081.5
37.5°	3331.9	2445.6	1442.2	1228.3	1149.4	1098.7	1086.2	1067.4	1051.8	1031.5	1028.4
40°	3474.0	2465.1	1358.7	1163.5	1090.8	1062.7	1057.3	1032.3	987.8	937.8	930.8
42.5°	3646.6	2478.4	1272.0	1098.7	1029.2	1019.8	1027.6	984.6	913.6	876.1	876.9
45°	3846.5	2500.3	1192.4	1034.6	965.9	965.9	998.7	942.5	883.9	860.5	864.4
47.5°	4105.7	2551.0	1118.2	964.3	907.3	923.0	934.7	891.7	858.9	830.0	829.3
50°	4480.5	2672.8	1041.7	893.3	862.8	894.1	877.7	852.7	814.4	791.0	788.7
52.5°	4945.9	2744.7	973.7	829.3	824.6	855.8	832.4	809.0	780.1	748.8	742.6
55°	5262.9	2758.0	916.7	782.4	798.8	795.7	787.1	766.0	750.4	709.0	709.8
57.5°	5617.4	2784.5	869.9	754.3	782.4	748.1	744.9	727.0	706.7	678.6	669.2
60°	6041.4	2825.9	829.3	743.4	768.4	716.8	701.2	694.2	673.9	659.8	663.7
62.5°	6503.7	2863.4	787.9	744.9	752.0	686.4	662.9	660.6	648.1	643.4	643.4
65°	6819.1	2761.1	736.3	743.4	726.2	655.1	625.5	624.7	614.5	613.0	612.2
67.5°	6709.0	2437.0	666.8	721.5	699.6	623.9	591.1	588.0	574.7	575.5	575.5
70°	6157.8	1974.8	570.8	667.6	666.8	595.8	555.2	545.0	527.1	530.2	533.3
72.5°	5123.9	1463.3	442.0	577.8	614.5	570.0	513.8	497.4	474.8	477.9	477.1
75°	3700.4	994.8	321.7	439.6	534.9	539.6	473.2	445.1	417.8	422.4	424.0
77.5°	1893.6	563.8	236.6	303.0	420.1	490.4	436.5	399.0	392.8	436.5	430.2
80°	617.7	282.7	164.0	212.4	275.6	401.4	382.6	339.7	338.1	348.3	299.1
82.5°	184.3	119.5	105.4	139.8	152.3	307.7	330.3	256.9	221.0	232.7	240.5
85°	63.2	57.8	60.1	69.5	72.6	180.4	231.1	170.2	160.9	177.3	174.9
87.5°	14.8	20.3	17.2	15.6	15.6	43.7	89.8	71.1	98.4	65.6	63.2
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)